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PROCEEDINGS

OF THE

American Association for the Advancement of Science

SIXTY-SECOND MEETING

HELD AT

MINNEAPOLIS, MINN.

December 27 to 31, 1910

PUBLISHED BY THE PERMANENT SECRETARY
1912

EDITED BY
L. O. HOWARD
Permanent Secretary

PRESS OF
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Officers for the Cleveland Meeting.—E. C. PICKERING, Cambridge; EDWARD B. VAN VLECK, Madison; ARTHUR G. WEBSTER, Worcester; W. LASH MILLER, Toronto; JOSEPH A. HOLMES, Washington; JAMES E. TODD, Lawrence; WILLIAM A. LOCY, Evanston; DUNCAN S. JOHNSON, Baltimore; J. WALTER FEWKES, Washington; JOHN HAYS HAMMOND, New York; JOHN J. R. MACLEOD, Cleveland; J. MCKEEN CATTELL, New York; L. O. HOWARD, Washington; HENRY E. SUMMERS, Ames; H. W. SPRINGSTEEN, Cleveland; GEORGE A. MILLER, Urbana; W. J. HUMPHREYS, Washington; C. H. HERTY, Chapel Hill; G. W. BISSELL, East Lansing; GEORGE F. KAY, Iowa City; MAURICE A. BIGELOW, New York; HENRY C. COWLES, Chicago, GEORGE GRANT MACCURDY, New Haven; SEYMOUR C. LOOMIS, New Haven; WALDEMAR KOCH*, Chicago; C. RIBORG MANN, Chicago; R. S. WOODWARD, Washington.

From the Association at Large.—(*A*). E. O. LOVETT, Houston; (*B*). THEODORE LYMAN, Cambridge; (*C*). RICHARD B. MOORE, Indianapolis; (*D*). OZNI P. HOOD, Houghton; (*E*). A. P. BRIGHAM, Hamilton; (*F*). EDWIN LINTON, Washington; (*G*). W. F. GANONG, Northampton; (*H*).

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*Deceased.

ALES HRDLICKA, Washington; (*I*). W. H. HALE, Brooklyn; (*K*). VICTOR C. VAUGHAN, Ann Arbor; (*L*). JAMES E. RUSSELL, New York.

Elected by the Council.—(For one year) HENRY B. WARD, WM. TRELEASE, THEODORE E. BURTON; (for two years) J. McK. CATTELL, J. M. COULTER, N. L. BRITTON; (for three years) H. L. FAIRCHILD, FRANZ BOAS, IRVING FISHER.

From the Affiliated Societies.—*American Chemical Society:* ARTHUR D. LITTLE, CHARLES L. PARSONS; *Geological Society of America:* H. L. FAIRCHILD, E. O. HOVEY; *Botanical Society of America:* WILLIAM G. FARLOW, DUNCAN S. JOHNSON; *American Microscopical Society*: T. W. GALLOWAY, B. H. RANSOM; *American Psychological Association*: C. E. SEASHORE; *American Society of Naturalists:* H. S. JENNINGS, A. G. MAYER; *American Association of Economic Entomologists:* HENRY E. SUMMERS, E. D. SANDERSON; *American Anthropological Association:* R. B. DIXON, G. B. GORDON; *Astronomical and Astrophysical Society of America:* GEORGE C. COMSTOCK, FRANK SCHLESINGER; *American Physical Society:* W. F. MAGIE, M. G. LLOYD; *Society of American Bacteriologists:* D. H. BERGEY; *American Association of Anatomists:* SIMON H. GAGE; *Society for Horticultural Science:* L. C. CORBETT; *Entomological Society of America:* STEPHEN A. FORBES, HERBERT OSBORN; *American Society of Mechanical Engineers:* ALEXANDER C. HUMPHREYS, HENRY G. REIST; *American Institute of Electrical Engineers:* EDWARD B. ROSA, JOHN B. WHITEHEAD; *American Society of Civil Engineers:* CHARLES WARREN HUNT, GEORGE GIBBS; *American Institute of Mining Engineers:* H. O. HOFMAN, JOHN D. IRVING; *American Medical Association:* GEORGE H. SIMMONS, GEORGE M. KOBER; *American Federation of Teachers of the Mathematical and the Natural Sciences:* HARRY W. TYLER, OTIS W. CALDWELL; *Association of American Geographers:* R. D. SALISBURY, A. P. BRIGHAM; *American Society of Zoologists (Central Branch)*: C. P. SIGERFOOS; *American Phytopathological Society:* G. P. CLINTON, C. L. SHEAR.

*Deceased.

Special Committees of the Association.*

1. *Auditors.*

EMORY MCCLINTOCK, Morristown, and T. N. GILL, Washington.

2. *Committee on Indexing Chemical Literature.*

JAS. LEWIS HOWE, *Chairman;* F. W. CLARKE, H. W. WILEY, ALFRED TUCKERMAN, ————.

3. *Committee on the Policy of the Association.*

C. S. MINOT, *Chairman;* THE PRESIDENT, THE RETIRING PRESIDENT, THE TREASURER, THE PERMANENT SECRETARY, H. L. FAIRCHILD, J. MCK. CATTELL, ARTHUR A. NOYES, D. T. MACDOUGAL, W. J. HUMPHREYS.

4. *Committee on Standards of Measurements.*

T. C. MENDENHALL, *Chairman;* E. W. MORLEY, E. L. NICHOLS, R. S. WOODWARD, H. S. CARHART. With power to add to its number.

5. *Committee on the Association Library.*

F. W. CLARKE, *Chairman;* A. W. BUTLER, W. L. DUDLEY, THOMAS FRENCH, JR.

6. *Committee on Anthropometric Measurements.*

J. MCK. CATTELL, W J MCGEE, FRANZ BOAS, ————.

7. *Committee for the Collection of Information Relative to Forestry.*

W. H. BREWER†, *Chairman;* GIFFORD PINCHOT, ARNOLD HAGUE.

8. *Committee on the Quantitative Study of Biological Variation.*

FRANZ BOAS, *Chairman;* J. MCK. CATTELL, C. S. MINOT, C. H. EIGENMANN, C. B. DAVENPORT.

9. *Committee on the Protection and Preservation of Objects of Archæological Interest.*

————, *Chairman;* F. W. PUTNAM, N. H. WINCHELL, G. K. GILBERT, A. W. BUTLER, GEORGE A. DORSEY.

10. *Committee on the Study of Blind Vertebrates.*

THEODORE GILL, *Chairman;* A. S. PACKARD, C. O. WHITMAN†, S. H. GAGE, H. C. BUMPUS, C. H. EIGENMANN.

11. *Committee on the Teaching of Anthropology in America.*

W J MCGEE, *Chairman;* G. G. MACCURDY, FRANZ BOAS, W. H. HOLMES, ————.

*All Committees are expected to present their reports to the Council not later than the third day of the meeting. Committees sending their reports to the Permanent Secretary one month before a meeting can have them printed for use at the meeting.

†Deceased.

12. *Committee on the Relations of Plants and Climate.*

WILLIAM TRELEASE, *Chairman;* D. T. MACDOUGAL, J. M. COULTER.

13. *Committee on the Atomic Weight of Thorium.*

CHARLES BASKERVILLE, *Chairman;* F. P. VENABLE, JAMES LEWIS HOWE.

14. *Committee on Velocity of Light.*

W. S. FRANKLIN, *Chairman;* E. F. NICHOLS, ————.

15. *Committee on Seismology.*

G. K. GILBERT, *Chairman;* CLEVELAND ABBE, L. A. BAUER, C. E. DUTTON, H. F. REID, OTTO KLOTZ, W. W. CAMPBELL, A. C. LAWSON, R. S. TARR†, L. M. HOSKINS, C. G. ROCKWOOD, JR., W. H. HOBBS, W J MCGEE, JOHN F. HAYFORD, T. A. JAGGAR, JR.

16. *Committee on the Darwin Memorial.*

H. F. OSBORN, *Chairman;* C. B. DAVENPORT, *Secretary;* L. O. HOWARD, E. G. CONKLIN, A. C. LANE, D. T. MACDOUGAL, J. MCK. CATTELL, J. M. COULTER, H. B. WARD, FRANZ BOAS.

17. *Committee on the Bibliography of Science.*

J. MCK. CATTELL, *Chairman;* R. S. WOODWARD, JAS. LEWIS HOWE, WM. TRELEASE, C. B. DAVENPORT.

18. *Committee of One Hundred on National Health.*

IRVING FISHER, *Chairman;* PAUL KENNADAY, *Executive Secretary;* EDWARD T. DEVINE, *Secretary.*

19. *Committee on Organization and Membership.*

R. S. WOODWARD, *Chairman;* L. O. HOWARD, J. MCK. CATTELL.

20. *Committee on Conservation of Natural Resources.*

T. C. CHAMBERLIN, *Chairman;* IRVING FISHER, M. T. BOGERT, W. F. M. GOSS, GIFFORD PINCHOT.

21. *Committee on Spelling of Chemical Terms.*

W. A. NOYES, *Chairman;* ————, L. P. KINNICUTT†, C. L. PARSONS.

22. *Committee on Establishment of Southern Appalachian and White Mountain Forest Reserve.*

R. S. WOODWARD, *Chairman;* CHAS. D. WALCOTT, I. C. WHITE, W. B. CLARK, GIFFORD PINCHOT.

23. *Committee to Inquire into the Manner and Cost of Publication, Distribution, and Use of Publications, of American Scientific Societies.*

FRANZ BOAS, *Chairman;* J. MCK. CATTELL, EDWIN G. CONKLIN, WILLIAM TRELEASE, R. S. WOODWARD.

MEETINGS AND OFFICERS OF THE ASSOCIATION OF AMERICAN GEOLOGISTS AND NATURALISTS.

Meeting.	Date.	Place.	Chairman.	Secretary.	Assistant Secretary.	Treasurer.
1st	April 2, 1840	Philadelphia,	Edw. Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841	Philadelphia,	Benj. Silliman,*	L. C. Beck,*	B. Silliman, Jr.,* C. B. Trego,*	
3d	April 25, 1842	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney,* M. B. Williams,*	
4th	April 26, 1843	Albany,	Henry D. Rogers,*	B. Silliman, Jr.,*		John Locke.*
5th	May 8, 1844	Washington,	John Locke,*	B. Silliman, Jr.,* O. P. Hubbard,*		Douglas Houghton.*
6th	April 30, 1845	New Haven,	Wm. B. Rogers,*	B. Silliman, Jr.,* J. Law. Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846	New York,	C. T. Jackson,*	B. Silliman, Jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847	Boston,	Wm. B. Rogers,*†	Jeffries Wyman,*		B. Silliman, Jr.*

* Deceased.

† Professor Rogers, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organised by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

Meetings.	Place.	Date.	Members in attendance.	Number of members.
1	Philadelphia	Sept. 20, 1848	?	461
2	Cambridge	Aug. 14, 1849	?	540
3	Charleston	Mar. 12, 1850	?	622
4	New Haven	Aug. 19, 1850	?	704
5	Cincinnati	May 5, 1851	87	800
6	Albany	Aug. 19, 1851	194	769
7	Cleveland	July 28, 1853	?	940
8	Washington	April 26, 1854	168	1004
9	Providence	Aug. 15, 1855	166	605
10	2d Albany	Aug. 20, 1856	381	722
11	Montreal	Aug. 12 1857	351	946
12	Baltimore	April 28, 1858	190	962
13	Springfield	Aug. 3, 1859	190	862
14	Newport	Aug. 1, 1860	135	644
15	Buffalo	Aug. 15, 1866	79	637
16	Burlington	Aug. 21, 1867	73	415
17	Chicago	Aug. 5, 1868	259	686
18	Salem	Aug. 18. 1869	244	511
19	Troy	Aug. 17, 1870	188	536
20	Indianapolis	Aug. 16. 1871	196	668
21	Dubuque	Aug. 15, 1872	164	610
22	Portland	Aug. 20, 1873	195	670
23	Hartford	Aug. 12, 1874	224	722
24	Detroit	Aug. 11. 1875	165	807
25	2d Buffalo	Aug. 23, 1876	215	867
26	Nashville	Aug. 29, 1877	173	953
27	St. Louis	Aug 21, 1878	134	962
28	Saratoga	Aug. 27, 1879	256	1030
29	Boston	Aug. 25, 1880	997	1555
30	2d Cincinnati	Aug. 17, 1881	500	1699
31	2d Montreal	Aug. 23, 1882	937	1922
32	Minneapolis	Aug. 15, 1883	328	2033
33	2d Philadelphia	Sept. 3, 1884	1261*	1981
34	Ann Arbor	Aug. 26, 1885	364	1956
35	3d Buffalo	Aug. 18, 1886	445	1886
36	New York	Aug. 10, 1887	729	1956
37	2d Cleveland	Aug 14, 1888	342	1964
38	Toronto	Aug. 26, 1889	424	1952
39	2d Indianapolis	Aug. 19, 1890	364	1944
40	2d Washington	Aug. 19, 1891	653†	2054
41	Rochester	Aug. 17, 1892	456	2037
42	Madison	Aug. 17, 1893	290	1939
43	Brooklyn	Aug. 15, 1894	488	1802
44	2d Springfield	Aug. 28, 1895	368	1913
45	4th Buffalo	Aug. 24, 1896	333	1890
46	2d Detroit	Aug. 9, 1897	283‡	1782
47	2d Boston	Aug. 22, 1898	903	1729
48	Columbus	Aug. 21, 1899	353	1721
49	2d New York	June 25, 1900	434	1925
50	Denver	Aug. 24, 1901	311	2703
51	Pittsburg	June 28 to July 3, 1902	435	3473
52	3d Washington	Dec. 29, 1902, to Jan. 3, 1903	975	3992
53	2d St. Louis	Dec. 26, 1903, to Jan. 1, 1904	385	4007
54	3d Philadelphia	Dec. 28, to 31, 1904	890	4041
55	New Orleans	Dec. 28, 1905, to Jan. 2, 1906	233	4321
56	Ithaca	June 28 to July 3, 1906	232	4425
57	3d New York	Dec. 27, 1906, to Jan. 2, 1907	934	4498
58	2d Chicago	Dec. 30, 1907, to Jan. 4, 1908	725	5114
59	Hanover	June 29 to July 3, 1908	125	6072
60	2d Baltimore	Dec. 28, 1908, to Jan. 2, 1909	1088	6136
61	3d Boston	Dec. 27, 1909, to Jan. 1, 1910	1140	7950
62	2d Minneapolis	Dec. 27 to 31, 1910	663	8012
63	4th Washington	Dec. 27 to 30, 1911	1402	8041

* Including 303 Members of the British Association and 9 other foreign guests.
† Including 24 Foreign Honorary Members for the meeting.
‡ Including 15 Foreign Honorary Members and Associates for the meeting.

Officers of the Meetings of the Association.

[The number before the name is that of the meeting; the year of the meeting follows the name; the asterisk after a name indicates that the member is deceased.]

PRESIDENTS.

1. WM. B. ROGERS,* 1848.
   W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3. A. D. BACHE,* March meeting, 1850, in the absence of
4. JOSEPH HENRY.* August meeting, 1850.
5. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
   (No meeting in 1852.)
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL,* 1856.
11. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased. 1858, in the absence
12. of JEFFRIES WYMAN.*
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
    (No meetings for 1861–65.)
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD,* 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.*
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB,* 1877.
27. O. C. MARSH,* 1878.
28. G. F. BARKER,* 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH,* 1881.
31. J. W. DAWSON,* 1882.
32. C. A. YOUNG,* 1883.
33. J. P. LESLEY,* 1884.
34. H. A. NEWTON,* 1885.
35. EDWARD S. MORSE, 1886.
36. S. P. LANGLEY,* 1887.
37. J. W. POWELL,* 1888.
38. T. C. MENDENHALL, 1889.
39. G. LINCOLN GOODALE, 1890.
40. ALBERT B. PRESCOTT,* 1891.
41. JOSEPH LECONTE,* 1892.
42. WILLIAM HARKNESS,* 1893.
43. DANIEL G. BRINTON,* 1894.
44. E. W. MORLEY, 1895.
45. EDWARD D. COPE,* 1896. THEODORE GILL, as senior vice-president acted after the death of Professor COPE.
46. WOLCOTT GIBBS,* 1897, absent. W J MCGEE, Acting President.
47. F. W. PUTNAM, 1898.
48. EDWARD ORTON,* 1899. MARCUS BENJAMIN, as senior vice-president, acted until the election of GROVE K. GILBERT by the General Committee, December, 1899, to fill the vacancy caused by the death of Professor ORTON.

49. R. S. WOODWARD, 1900.
50. C. S. MINOT, 1901.
51. ASAPH HALL,* 1902.
52. IRA REMSEN, 1902.
53. CARROLL D. WRIGHT,* 1903.
54. W. G. FARLOW, 1904.
55. C. M. WOODWARD, 1905.
56. W. H. WELCH, 1906.
57. W. H. WELCH, 1906.
58. E. L. NICHOLS, 1907.
59. T. C. CHAMBERLIN, 1908.
60. T. C. CHAMBERLIN, 1908.
61. DAVID S. JORDAN, 1909.
62. A. A. MICHELSON, 1910.
63. CHARLES E. BESSEY, 1911.

VICE-PRESIDENTS.

There were no Vice-Presidents until the 11th meeting, when there was a single Vice-President for each meeting. At the 24th meeting, the Association met in Sections A and B, each presided over by a Vice-President. At the 31st meeting nine sections were organized, each with a Vice-President as its presiding officer. In 1886, Section G (Microscopy) was given up. In 1892, Section F was divided into F, Zoology; G, Botany.

1857–1874.

11. ALEXIS CASWELL,* 1857, acted as President.
12. JOHN E. HOLBROOK,* 1858, not present.
13. EDWARD HITCHCOCK,* 1859.
14. B. A. GOULD,* 1860.
15. B. A. GOULD,* 1866, in the absence of R. W. GIBBES.
16. WOLCOTT GIBBS,* 1867.
17. CHAS. WHITTLESEY,* 1868.
18. OGDEN N. ROOD,* 1869.
19. T. STERRY HUNT,* 1870, acted as President.
20. G. F. BARKER,* 1871.
21. ALEX. WINCHELL,* 1872.
22. A. H. WORTHEN,* 1873, not present.
23. C. S. LYMAN,* 1874.

1875–1881.

Section A.—Mathematics, Physics, and Chemistry.

24. H. A. NEWTON,* 1875.
25. C. A. YOUNG,* 1876.
26. R. H. THURSTON,* 1877, in the absence of E. C. PICKERING.
27. R. H. THURSTON,* 1878.
28. S. P. LANGLEY,* 1879.
29. ASAPH HALL,* 1880.
30. WM. HARKNESS,* 1881, in the absence of A. M. MAYER.*

Section B.—Natural History.

24. J. W. DAWSON,* 1875.
25. EDWARD S. MORSE, 1876.
26. O. C. MARSH,* 1877.
27. AUG. R. GROTE,* 1878.
28. J. W. POWELL,* 1879.
29. ALEX. AGASSIZ,* 1880.
30. EDWARD T. COX,* 1881, in the absence of GEORGE ENGELMANN.*

CHAIRMEN OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. S. W. JOHNSON,* 1875.
25. G. F. BARKER,* 1876.
26. N. T. LUPTON,* 1877.
27. F. W. CLARKE, 1878.
28. F. W. CLARKE, 1879, in the absence of IRA REMSEN.
29. J. M. ORDWAY,* 1880.
30. G. C. CALDWELL,* 1881, in the absence of W. R. NICHOLS.*

Subsection of Microscopy.

25. R. H. WARD, 1876.
26. R. H. WARD, 1877.
27. R. H. WARD, 1878, in the absence of G. S. BLACKIE.*
28. E. W. MORLEY, 1879.
29. S. A. LATTIMORE, 1880
30. A. B. HERVEY, 1881.

Subsection of Anthropology.

24. LEWIS H. MORGAN,* 1875
25. LEWIS H. MORGAN,* 1876.
26. DANIEL WILSON,* 1877, not present.
27. United with Section B.
28. DANIEL WILSON,* 1879.
29. J. W. POWELL,* 1880.
30. GARRICK MALLERY,* 1881.

Subsection of Entomology.

30. J. G. MORRIS,* 1881.

VICE-PRESIDENTS OF SECTIONS, 1882—

Section A.—Mathematics and Astromomy.

31. W. A. ROGERS,* 1882, in the absence of WM. HARKNESS.*
32. W. A. ROGERS,* 1883.
33. H. T. EDDY, 1884.
34. WM. HARKNESS,* 1885, in the absence of J. M. VAN VLECK.
35. J. W. GIBBS,* 1886.
36. J. R. EASTMAN, 1887, in place of W. FERREL,* resigned.
37. ORMOND STONE, 1888.
38. R. S. WOODWARD, 1889.
39. S. C. CHANDLER, 1890.
40. E. W. HYDE, 1891.
41. J. R. EASTMAN, 1892.
42. C. L. DOOLITTLE, 1893.
43. { G. C. COMSTOCK, 1894. / EDGAR FRISBY, 1894. }
44. EDGAR FRISBY, 1895, in place of E. S. HOLDEN, resigned.
45. ALEX. MACFARLANE, 1896, in place of WM. E. STORY, resigned.
46. W. W. BEMAN, 1897.
47. E. E. BARNARD, 1898.
48. ALEX. MACFARLANE, 1899.
49. ASAPH HALL, JR., 1900.
50. JAMES MCMAHON, 1901.
51. G. W. HOUGH,* 1902.
52. GEORGE BRUCE HALSTED, 1902.
53. O. H. TITTMANN, 1903.
54. ALEXANDER ZIWET, 1904.
55. ALEXANDER ZIWET, 1905, in the absence of W. S. EICHELBERGER.
56. EDWARD KASNER, 1906.
57. EDWARD KASNER, 1906.
58. E. O. LOVETT, 1907.
59. C. J. KEYSER, 1908.
60. C. J. KEYSER, 1908.
61. E. W. BROWN, 1909.
62. E. H. MOORE, 1910.
63. EDWIN B. FROST, 1911.

Section B.—Physics.

31. T. C. MENDENHALL, 1882.
32. H. A. ROWLAND,* 1883.
33. J. TROWBRIDGE, 1884.
34. S. P. LANGLEY,* 1885, in place of C. F. BRACKETT, resigned.
35. C. F. BRACKETT, 1886.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

36. W. A. ANTHONY,* 1887.
37. A. A. MICHELSON, 1888.
38. H. S. CARHART, 1889.
39. CLEVELAND ABBE, 1890.
40. F. E. NIPHER, 1891.
41. B. F. THOMAS,* 1892.
42. E. L. NICHOLS, 1893.
43. WM. A. ROGERS,* 1894.
44. W. LECONTE STEVENS, 1895.
45. CARL LEO MEES, 1896.
46. CARL BARUS, 1897.
47. F. P. WHITMAN, 1898.
48. ELIHU THOMSON, 1899.
49. ERNEST MERRITT, 1900.
50. D. B. BRACE,* 1901.
51. W. S. FRANKLIN, 1902.
52. ERNEST F. NICHOLS, 1902.
53. E. H. HALL, 1903.
54. WM. F. MAGIE, 1904.
55. HENRY CREW, 1905.
56. W. C. SABINE, 1906.
57. W. C. SABINE, 1906.
58. D. C. MILLER, 1907.
59. KARL E. GUTHE, 1908.
60. KARL E. GUTHE, 1908.
61. LOUIS A. BAUER, 1909.
62. EDWARD B. ROSA, 1910.
63. R. A. MILLIKAN, 1911.

Section C.—Chemistry.

31. H. C. BOLTON,* 1882.
32. E. W. MORLEY, 1883.
33. J. W. LANGLEY, 1884.
34. N. T. LUPTON,* 1885, in the absence of W. R. NICHOLS.*
35. H. W. WILEY, 1886.
36. A. B. PRESCOTT, 1887.
37. C. E. MUNROE, 1888.
38. W. L. DUDLEY, 1889.
39. R. B. WARDER,* 1890.
40. R. C. KEDZIE,* 1891.
41. ALFRED SPRINGER, 1892.
42. EDWARD HART, 1893.
43. T. H. NORTON, 1894.
44. WM. MCMURTRIE, 1895.
45. W. A. NOYES, 1896.
46. W. P. MASON, 1897.
47. EDGAR F. SMITH, 1898.
48. F. P. VENABLE, 1899.
49. JAS. LEWIS HOWE, 1900.
50. JOHN H. LONG, 1901.
51. H. A. WEBER, 1902.
52. CHARLES BASKERVILLE, 1902.
53. W. D. BANCROFT, 1903.
54. L. P. KINNICUTT,* 1904.
55. L. P. KINNICUTT,* 1905, in the absence of C. F. MABERY.
56. CLIFFORD RICHARDSON, 1906.
57. CLIFFORD RICHARDSON, 1906.
58. H. P. TALBOT, 1907.
59. LOUIS KAHLENBERG, 1908.
60. LOUIS KAHLENBERG, 1908.
61. WM. MCPHERSON, 1909.
62. G. B. FRANKFORTER, 1910.
63. FRANK K. CAMERON, 1911.

Section D.—Mechanical Science and Engineering.

31. W. P. TROWBRIDGE,* 1882.
32. DEVOLSON WOOD, 1883, absent, but place was not filled.
33. R. H. THURSTON,* 1884.
34. J. BURKITT WEBB, 1885.
35. O. CHANUTE,* 1886.
36. E. B. COXE, 1887.
37. C. J. H. WOODBURY, 1888.
38. JAMES E. DENTON, 1889.
39. JAMES E. DENTON, 1890, in place of A. BEARDSLEY, absent.
40. THOMAS GRAY,* 1891.
41. J. B. JOHNSON,* 1892.
42. S. W. ROBINSON,* 1893.
43. MANSFIELD MERRIMAN, 1894.
44. WILLIAM KENT, 1895.
45. FRANK O. MARVIN, 1896.
46. JOHN GALBRAITH, 1897.
47. JOHN GALBRAITH, 1898, in the absence of M. E. COOLEY.
48. STORM BULL,* 1899.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

49. JOHN A. BRASHEAR, 1900.
50. H. S. JACOBY, 1901.
51. J. J. FLATHER, 1902.
52. CLARENCE A. WALDO, 1902.
53. C. M. WOODWARD, 1903.
54. C. M. WOODWARD, 1904, in the absence of D. S. JACOBUS.
55. F. W. MCNAIR, 1905.
56. W. R. WARNER, 1906.
57. W. R. WARNER, 1906.
58. O. H. LANDRETH, 1907.
59. GEORGE F. SWAIN, 1908.
60. GEORGE F. SWAIN, 1908.
61. JOHN F. HAYFORD, 1909.
62. A. LAWRENCE ROTCH,* 1910.
63. CHARLES S. HOWE, 1911.

Section E.—Geology and Geography.

31. E. T. COX,* 1882.
32. C. H. HITCHCOCK, 1883.
33. N. H. WINCHELL, 1884.
34. EDWARD ORTON,* 1885.
35. T. C. CHAMBERLIN, 1886.
36. G. K. GILBERT, 1887.
37. GEORGE H. COOK,* 1888.
38. CHARLES A. WHITE,* 1889.
39. JOHN C. BRANNER, 1890.
40. J. J. STEVENSON, 1891.
41. H. S. WILLIAMS, 1892.
42. CHARLES D. WALCOTT, 1893.
43. SAMUEL CALVIN,* 1894.
44. JED HOTCHKISS,* 1895.
45. B. K. EMERSON, 1896.
46. { I. C. WHITE, 1897. / E. W. CLAYPOLE,* 1897. }
47. H. L. FAIRCHILD, 1898.
48. J. F. WHITEAVES,* 1899.
49. J. F. KEMP, 1900.
50. C. R. VAN HISE, 1901.
51. JOSEPH A. HOLMES, 1902, in the absence of O. A. DERBY.
52. WM. M. DAVIS, 1902.
53. I. C. RUSSELL,* 1903.
54. EUGENE A. SMITH, 1904.
55. WM. NORTH RICE, 1905.
56. A. C. LANE, 1906.
57. A. C. LANE, 1906.
58. J. P. IDDINGS, 1907.
59. BAILEY WILLIS, 1908.
60. BAILEY WILLIS, 1908.
61. REGINALD W. BROCK, 1909.
62. CHRISTOPHER W. HALL,* 1910.
63. BOHUMIL SHIMEK, 1911.

Section F.—Biology, 1882–1892.

31. W. H. DALL, 1882.
32. W. J. BEAL, 1883.
33. E. D. COPE,* 1884.
34. T. J. BURRILL, 1885, in the absence of B. G. WILDER.
35. H. P. BOWDITCH, 1886.
36. W. G. FARLOW, 1887.
37. C. V. RILEY,* 1888.
38. GEORGE L. GOODALE, 1889.
39. C. S. MINOT, 1890.
40. J. M. COULTER, 1891.
41. S. H. GAGE, 1892.

Section F.—Zoology.

42. HENRY F. OSBORN, 1893.
43. J. A. LINTNER,* 1894, in place of S. H. SCUDDER,* resigned.
44. L. O. HOWARD, 1895, in place of D. S. JORDAN, resigned.
45. THEO. GILL, 1896.
46. L. O. HOWARD, 1897, in place of G. BROWN GOODE,* deceased.
47. A. S. PACKARD,* 1898.
48. S. H. GAGE, 1899.
49. C. B. DAVENPORT, 1900.
50. D. S. JORDAN, 1901.
51. E. L. MARK, 1902, in the absence of C. C. NUTTING.
52. C. W. HARGITT, 1902.
53. E. L. MARK, 1903.
54. C. HART MERRIAM, 1904.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

55. H. B. WARD, 1905.
56. E. G. CONKLIN, 1906.
57. E. G. CONKLIN, 1906.
58. E. B. WILSON, 1907.
59. C. J. HERRICK, 1908.
60. C. J. HERRICK, 1908.
61. W. E. RITTER, 1909.
62. JACOB REIGHARD, 1910.
63. H. F. NACHTRIEB, 1911.

Section G.—Microscopy, 1882–85.

31. A. H. TUTTLE, 1882.
32. J. D. COX,* 1883.
33. T. G. WORMLEY,* 1884.
34. S. H. GAGE, 1885.
(Section united with F in 1886.)

Section G.—Botany.

42. CHARLES E. BESSEY, 1893.
43. L. M. UNDERWOOD,* 1894.
C. E. BESSEY, 1894.
44. J. C. ARTHUR, 1895.
45. N. L. BRITTON, 1896.
46. G. F. ATKINSON, 1897.
47. W. G. FARLOW, 1898.
48. C. R. BARNES,* 1899.
49. W. TRELEASE, 1900.
50. B. T. GALLOWAY, 1901.
51. C. E. BESSEY, 1902, in the absence of D. H. CAMPBELL.
52. F. V. COVILLE, 1902.
53. T. H. MACBRIDE, 1903.
54. B. L. ROBINSON, 1904.
55. B. L. ROBINSON, 1905, in the absence of ERWIN F. SMITH.
56. D. T. MACDOUGAL, 1906.
57. D. T. MACDOUGAL, 1906.
58. C. E. BESSEY, 1907.
59. H. M. RICHARDS, 1908.
60. H. M. RICHARDS, 1908.
61. D. P. PENHALLOW,* 1909.
62. ROBERT A. HARPER, 1910.
63. F. C. NEWCOMBE, 1911.

Section H.—Anthropology and Psychology.

31. ALEX. WINCHELL,* 1882.
32. OTIS T. MASON,* 1883.
33. EDWARD S. MORSE, 1884.
34. J. OWEN DORSEY,* 1885, in the absence of W. H. DALL.
35. HORATIO HALE,* 1886.
36. D. G. BRINTON,* 1887.
37. CHARLES C. ABBOTT, 1888.
38. GARRICK MALLERY,* 1889.
39. FRANK BAKER, 1890.
40. JOSEPH JASTROW, 1891.
41. W. H. HOLMES, 1892.
42. J. OWEN DORSEY,* 1893.
43. FRANZ BOAS, 1894.
44. F. H. CUSHING,* 1895.
45. ALICE C. FLETCHER, 1896.
46. W J MCGEE, 1897.
47. J. MCK. CATTELL, 1898.
48. THOMAS WILSON,* 1899.
49. A. W. BUTLER, 1900.
50. J. WALTER FEWKES, 1901.
51. STEWART CULIN, 1902.
52. GEO. A. DORSEY, 1902.
53. M. H. SAVILLE, 1903.
54. WALTER HOUGH, 1904.
55. GEORGE GRANT MACCURDY, 1905.
56. HUGO MUNSTERBERG, 1906.
57. A. L. KROEBER, 1906.
58. FRANZ BOAS, 1907.
59. R. S. WOODWORTH, 1908.
60. R. S. WOODWORTH, 1908.
61. WM. H. HOLMES, 1909.
62. ROLAND B. DIXON, 1910.
63. GEORGE T. LADD, 1911.

Section I.—Social and Economic Science.

31. E. B. ELLIOTT,* 1882.
32. FRANKLIN B. HOUGH,* 1883.
33. JOHN EATON,* 1884.
34. EDWARD ATKINSON, 1885.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

35. JOSEPH CUMMINGS,* 1886.
36. H. E. ALVORD,* 1887.
37. CHARLES W. SMILEY, 1888.
38. CHARLES S. HILL, 1889.
39. J. RICHARDS DODGE,* 1890.
40. EDMUND J. JAMES, 1891.
41. L. F. WARD, 1892, in place of S. D. HORTON,* resigned.
42. WILLIAM H. BREWER,* 1893.
43. HENRY FARQUHAR, 1894.
44. B. E. FERNOW, 1895.
45. W. R. LAZENBY, 1896.
46. R. T. COLBURN, 1897.
47. ARCHIBALD BLUE, 1898.
48. MARCUS BENJAMIN, 1899.
49. MARCUS BENJAMIN, 1900, in the absence of C. M. WOODWARD.
50. JOHN HYDE, 1901.
51. JOHN HYDE, 1902, in the absence of CARROLL D. WRIGHT.*
52. H. T. NEWCOMB, 1902.
53. SIMEON E. BALDWIN, 1903.
54. MARTIN A. KNAPP, 1904.
55. IRVING FISHER, 1905.
56. CHAS. A. CONANT, 1906.
57. CHAS. A. CONANT, 1906.
58. JOHN FRANKLIN CROWELL, 1907.
59. WILLIAM GRAHAM SUMNER,* 1908.
60. WILLIAM GRAHAM SUMNER,* 1908.
61. BYRON W. HOLT, 1909, in place of CARROLL D. WRIGHT,* deceased.
62. THEODORE E. BURTON, 1910.
63. J. PEASE NORTON, 1911.

Section K.—Physiology and Experimental Medicine.

51. W. H. WELCH, 1902.
52. W. H. WELCH, 1902.
53. H. P. BOWDITCH, 1903.
54. H. P. BOWDITCH, 1904.
55. ALEXANDER C. ABBOTT, 1905, in the absence of W. T. SEDGWICK.
56. SIMON FLEXNER, 1906.
57. SIMON FLEXNER, 1906.
58. LUDVIG HEKTOEN, 1907.
59. WILLIAM H. HOWELL, 1908.
60. WILLIAM H. HOWELL, 1908.
61. CHARLES S. MINOT, 1909.
62. FREDERICK G. NOVY, 1910.
63. WILLIAM T. PORTER, 1911.

Section L.—Education.

58. ELMER ELLSWORTH BROWN, 1907.
59. JOHN DEWEY, 1908.
60. JOHN DEWEY, 1908.
61. JAMES E. RUSSELL, 1909.
62. A. ROSS HILL, 1910.
63. E. L. THORNDIKE, 1911.

SECRETARIES.

General Secretaries, 1848–

1. WALTER R. JOHNSON,* 1848.
2. E. N. HORSFORD,* 1849, in the absence of JEFFRIES WYMAN.*
3. L. R. GIBBS,* 1850, in the absence of E. C. HERRICK.*
4. E. C. HERRICK,* 1850.
5. WM. B. ROGERS,* 1851, in the absence of E. C. HERRICK.*
6. WM. B. ROGERS,* 1851.
7. S. ST. JOHN,* 1853, in the absence of J. D. DANA.*
8. J. LAWRENCE SMITH,* 1854.
9. WOLCOTT GIBBS,* 1855.
10. B. A. GOULD,* 1856.
11. JOHN L. LECONTE,* 1857.
12. W. M. GILLESPIE,* 1858, in the absence of WM. CHAUVENET.*
13. WM. CHAUVENET,* 1859.
14. JOSEPH LECONTE,* 1860.
15. ELIAS LOOMIS,* 1866, in the absence of W. P. TROWBRIDGE.*
16. C. S. LYMAN,* 1867.
17. SIMON NEWCOMB,* 1868, in the absence of A. P. ROCKWELL.*

SECRETARIES, CONTINUED.

18. O. C. MARSH,* 1869.
19. F. W. PUTNAM, 1870, in the absence of C. F. HARTT.*
20. F. W. PUTNAM, 1871.
21. EDWARD S. MORSE, 1872.
22. C. A. WHITE,* 1873.
23. A. C. HAMLIN, 1874.
24. S. H. SCUDDER,* 1875.
25. T. C. MENDENHALL, 1876.
26. AUG. R. GROTE,* 1877.
27. H. C. BOLTON,* 1878.
28. H. C. BOLTON,* 1879, in the absence of GEORGE LITTLE.
29. J. K. REES,* 1880.
30. C. V. RILEY,* 1881.
31. WILLIAM SAUNDERS, 1882.
32. J. R. EASTMAN, 1883.
33. ALFRED SPRINGER, 1884.
34. C. S. MINOT, 1885.
35. S. G. WILLIAMS,* 1886.
36. WILLIAM H. PETTEE,* 1887.
37. JULIUS POHLMAN, 1888.
38. C. LEO MEES, 1889.
39. H. C. BOLTON,* 1890.
40. H. W. WILEY, 1891.
41. A. W. BUTLER, 1892.
42. T. H. NORTON, 1893.
43. H. L. FAIRCHILD, 1894.
44. JAS. LEWIS HOWE, 1895.
45. CHARLES R. BARNES,* 1896.
46. ASAPH HALL, JR., 1897.
47. J. MCMAHON, 1898, in place of D. S. KELLICOTT,* deceased.
48. FREDERICK BEDELL, 1899.
49. CHAS. BASKERVILLE, 1900.
50. JOHN M. COULTER, 1901, in the absence of WILLIAM HALLOCK.
51. D. T. MACDOUGAL, 1902.
52. HENRY B. WARD, 1902.
53. C. W. STILES, 1903.
54. CHARLES S. HOWE, 1904.
55. C. A. WALDO, 1905.
56. JOHN F. HAYFORD, 1906.
57. JOHN F. HAYFORD, 1906.
58. F. W. MCNAIR, 1907.
59. J. PAUL GOODE, 1908.
60. J. PAUL GOODE, 1908.
61. DAYTON C. MILLER, 1909.
62. F. E. CLEMENTS, 1910.
63. JOHN ZELENY, 1911.

Permanent Secretaries, 1851–

5–7. SPENCER F. BAIRD,* 1851–4.
8–17. JOSEPH LOVERING,* 1854–68.
18. F. W. PUTNAM, 1869, in the absence of J. LOVERING.*
19–21. JOSEPH LOVERING,* 1870–73.
22–46. F. W. PUTNAM, 1873–98.
47–67. L. O. HOWARD, 1898–1915.

Assistant General Secretaries, 1882–1887.

31. J. R. EASTMAN, 1882.
32. ALFRED SPRINGER, 1883.
33. C. S. MINOT, 1884, in the absence of E. S. HOLDEN.
34. S. G. WILLIAMS,* 1885, in the absence of C. C. ABBOTT.
35. W. H. PETTEE,* 1886.
36. J. C. ARTHUR, 1887.

Secretaries of the Council, 1888–

37. C. LEO MEES, 1888.
38. H. C. BOLTON,* 1889.
39. H. W. WILEY, 1890.
40. A. W. BUTLER, 1891.
41. T. H. NORTON, 1892.
42. H. LEROY FAIRCHILD, 1893.
43. JAS. LEWIS HOWE, 1894.
44. CHARLES R. BARNES,* 1895.
45. ASAPH HALL, JR., 1896.
46. D. S. KELLICOTT,* 1897.
47. FREDERICK BEDELL, 1898.
48. CHARLES BASKERVILLE, 1899.

SECRETARIES, CONTINUED.

49. WILLIAM HALLOCK, 1900.
50. D. T. MACDOUGAL, 1901.
51. H. B. WARD, 1902.
52. C. WARDELL STILES, 1902.
53. CHAS. S. HOWE, 1903.
54. C. A. WALDO, 1904.
55. JOHN F. HAYFORD, 1905.
56. F. W. MCNAIR, 1906.
57. F. W. MCNAIR, 1906.
58. J. PAUL GOODE, 1907, in place of WILLIAM HARPER DAVIS.
59. DAYTON C. MILLER, 1908.
60. DAYTON C. MILLER, 1908.
61. FRANCIS G. BENEDICT, 1909.
62. JOHN ZELENY, 1910.
63. T. S. PALMER, 1911.

Secretaries of Section A.—Mathematics, Physics and Chemistry, 1875–1881.

24. S. P. LANGLEY,* 1875. / T. C. MENDENHALL, 1875.
25. A. W. WRIGHT, 1876.
26. H. C. BOLTON,* 1877.
27. F. E. NIPHER, 1878.
28. J. K. REES,* 1879.
29. H. B. MASON, 1880.
30. E. T. TAPPAN, 1881, in the absence of JOHN TROWBRIDGE.

Secretaries of Section B.—Natural History, 1874–1881.

24. EDWARD S. MORSE, 1875.
25. ALBERT H. TUTTLE, 1876.
26. WILLIAM H. DALL, 1877.
27. GEORGE LITTLE, 1878.
28. WM. H. DALL, 1879, in the absence of A. C. WETHERBY.
29. CHARLES V. RILEY,* 1880.
30. WILLIAM SAUNDERS, 1881.

SECRETARIES OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. F. W. CLARKE, 1875.
25. H. C. BOLTON,* 1876.
26. P. SCHWEITZER, 1877.
27. A. P. S. STUART,* 1878.
28. W. R. NICHOLS,* 1879.
29. C. E. MUNROE, 1880.
30. ALFRED SPRINGER, 1881, in the absence of R. B. WARDER.*

Subsection of Entomology.

30. B. PICKMAN MANN, 1881.

Subsection of Anthropology.

24. F. W. PUTNAM, 1875.
25. OTIS T. MASON,* 1876.
26–27. United with Section B.
28–30. J. G. HENDERSON, 1879–81.

Subsection of Microscopy.

25. E. W. MORLEY, 1876.
26. T. O. SOMMERS, JR., 1877.
27. G. J. ENGLEMANN,* 1878.
28–29. A. B. HERVEY, 1879–80.
30. W. H. SEAMAN,* 1881, in the absence of S. P. SHARPLES.

SECRETARIES OF THE SECTIONS, 1882–

Section A.—Mathematics and Astronomy.

31. H. T. EDDY, 1882.
32. G. W. HOUGH,* 1883, in the absence of W. W. JOHNSON.
33. G. W. HOUGH,* 1884.
34. E. W. HYDE, 1885.
35. S. C. CHANDLER, 1886.
36. H. M. PAUL, 1887.
37. C. L. DOOLITTLE, 1888.
38. G. C. COMSTOCK, 1889.
39. W. W. BEMAN, 1890.
40. F. H. BIGELOW, 1891.
41. WINSLOW UPTON, 1892.
42. C. A. WALDO, 1893, in the absence of A. W. PHILLIPS.
43. J. E. KERSHNER, 1894, in place of W. W. BEMAN, resigned.
44. ASAPH HALL, JR., 1895, in place of E. H. MOORE, resigned.
45. EDWIN B. FROST, 1896.
46. JAMES MCMAHON, 1897.
47. WINSLOW UPTON, 1898, in place of ALEX. ZIWET, resigned.
48. JOHN F. HAYFORD, 1899.
49. W. M. STRONG, 1900.
50. G. A. MILLER, 1901, in place of H. C. LORD, resigned.
51. E. S. CRAWLEY, 1902.
52. C. S. HOWE, 1902.
53–57. L. G. WELD, 1903–1906.
58–64. GEORGE A. MILLER, 1907–1912.

Section B.—Physics.

31. C. S. HASTINGS, 1882.
32. F. E. NIPHER, 1883, in the absence of C. K. WEAD.
33. N. D. C. HODGES, 1884.
34. B. F. THOMAS,* 1885, in place of A. A. MICHELSON, resigned.
35. H. S. CARHART, 1886.
36. C. LEO MEES, 1887.
37. ALEX. MACFARLANE, 1888.
38. E. L. NICHOLS, 1889.
39. E. M. AVERY, 1890.
40. ALEX MACFARLANE, 1891.
41. BROWN AYRES, 1892.
42. W. LECONTE STEVENS, 1893.
43. B. W. SNOW, 1894.
44. ERNEST MERRITT, 1895.
45. FRANK P. WHITMAN, 1896.
46. FREDERICK BEDELL, 1897.
47. W. S. FRANKLIN, 1898, in place of E. B. ROSA, resigned.
48. WILLIAM HALLOCK, 1899.
49. R. A. FESSENDEN, 1900.
50. JOHN ZELENY, 1901, in place of J. O. REED, resigned.
51. E. F. NICHOLS, 1902.
52. D. C. MILLER, 1902.
53–57. D. C. MILLER, 1903–1906.
58–63. A. D. COLE, 1907–1911.
64–68. W. J. HUMPHREYS, 1912–1916.

Section C.—Chemistry.

31. ALFRED SPRINGER, 1882.
32. J. W. LANGLEY, 1883. / W. MCMURTRIE, 1883.
33. H. CARMICHAEL, 1884, in the absence of R. B. WARDER.*
34. F. P. DUNNINGTON, 1885.
35. W. MCMURTRIE, 1886.
36. C. F. MABERY, 1887.
37. W. L. DUDLEY, 1888.
38. EDWARD HART, 1889.
39. W. A. NOYES, 1890.
40. T. H. NORTON, 1891.
41. JAS. LEWIS HOWE, 1892.
42. H. N. STOKES, 1893, in the absence of J. U. NEF.
43. MORRIS LOEB, 1894, in place of S. M. BABCOCK, resigned.

SECRETARIES OF THE SECTIONS, CONTINUED.

44. { W. P. MASON, 1895.
{ W. O. ATWATER,* 1895.
45. FRANK P. VENABLE, 1896.
46. P C. FREER,* 1897.
47. C. BASKERVILLE, 1898.
48. H. A. WEBER, 1899.
49. A. A. NOYES, 1900.
50. W. MCPHERSON, 1901.
51. F. C. PHILLIPS, 1902.
52. H. N. STOKES, 1902.
53–58. CHAS. L. PARSONS, 1903–07.
59–64. CHARLES H. HERTY, 1908–1912.

Section D.—Mechanical Science and Engineering.

31. J. BURKITT WEBB, 1882, in the absence of C. B. DUDLEY*.
32. J. BURKITT WEBB, 1883, *pro tempore.*
33. J. BURKITT WEBB, 1884.
34. C. J. H. WOODBURY, 1885.
35. WILLIAM KENT, 1886.
36. G. M. BOND, 1887.
37. ARTHUR BEARDSLEY, 1888.
38. W. R. WARNER, 1889.
39. THOMAS GRAY,* 1890.
40. WILLIAM KENT, 1891.
41. O. H. LANDRETH, 1892.
42. D. S. JACOBUS, 1893.
43. JOHN H. KINEALY, 1894.
44. H. S. JACOBY, 1895.
45. JOHN GALBRAITH, 1896.
46. JOHN J. FLATHER, 1897.
47. JOHN J. FLATHER, 1898, in the absence of W. S. ALDRICH.
48. J. M. PORTER, 1899.
49. W. T. MAGRUDER, 1900.
50. C. W. COMSTOCK, 1901, in the absence of W. H. JAQUES.
51. C. A. WALDO, 1902.
52. ELWOOD MEAD, 1902, in the absence of ALBERT KINGSBURY.
53–58. W. T. MAGRUDER, 1903–1907.
59–64. GEORGE W. BISSELL, 1908–1912.

Section E.—Geology and Geography.

31. H. S. WILLIAMS, 1882, in the absence of C. E. DUTTON.
32. A. A. JULIEN, 1883.
33. E. A. SMITH, 1884.
34. G. K. GILBERT, 1885, in the absence of H. C. LEWIS.*
35. E. W. CLAYPOLE,* 1886.
36. W. M. DAVIS, 1887, in the absence of T. B. COMSTOCK.
37. JOHN C. BRANNER, 1888.
38. JOHN C. BRANNER, 1889.
39. SAMUEL CALVIN,* 1890.
40. W J MCGEE, 1891.
41. R. D. SALISBURY, 1892.
42. W. H. HOBBS, 1893, in place of R. T. HILL, resigned.
43. JED. HOTCHKISS,* 1894, in place of W. M. DAVIS, resigned.
44. J. PERRIN SMITH, 1895.
45. W. N. RICE, 1896, in place of A. C. GILL, resigned.
46. C. H. SMITH, JR., 1897.
47. WARREN UPHAM, 1898.
48. ARTHUR HOLLICK, 1899.
49. J. A. HOLMES, 1900.
50. H. B. PATTON, 1901, in the absence of R. A. F. PENROSE.
51. F. P. GULLIVER, 1902.
52. E. O. HOVEY, 1902.
53. E. O. HOVEY, 1903, in absence of G. B. SHATTUCK.
54–57. EDMUND O. HOVEY, 1904–1906.
58–63. F. P. GULLIVER, 1907–1911.
64–68. GEORGE F. KAY, 1912–1916.

Section F.—Biology, 1882–92.

31. WILLIAM OSLER, 1882, in the absence of C. S. MINOT.

SECRETARIES OF THE SECTIONS, CONTINUED.

32. S. A. FORBES, 1883.
33. C. E. BESSEY, 1884.
34. J. A. LINTNER,* 1885, in place of C. H. FERNALD, resigned.
35. J. C. ARTHUR, 1886.
36. J. H. COMSTOCK, 1887.
37. B. E. FERNOW, 1888.
38. A. W. BUTLER, 1889.
39. J. M. COULTER, 1890.
40. A. J. COOK, 1891.
41. B. D. HALSTED, 1892.

Section F.—Zoology.

42. L. O. HOWARD, 1893.
43. JOHN B. SMITH,* 1894, in place of WM. LIBBEY, resigned.
44. C. W. HARGITT, 1895, in place of S. A. FORBES, resigned.
45. D. S. KELLICOTT,* 1896.
46. C. C. NUTTING, 1897.
47. R. T. JACKSON, 1898, in place of C. W. STILES, resigned.
48. C. L. MARLATT, 1899, in place of F. W. TRUE, resigned.
49. C. H. EIGENMANN, 1900.
50. H. B. WARD, 1901.
51. C. W. STILES, 1902.
52. C. J. HERRICK, 1902.
53–58. C. J. HERRICK, 1903–07.
59–64. MAURICE A. BIGELOW, 1908–1912.

Section G.—Microscopy, 1882–85.

31. ROBERT BROWN, JR., 1882.
32. CARL SEILER, 1883.
33. ROMYN HITCHCOCK, 1884.
34. W. H. WALMSLEY, 1885.

Section G.—Botany.

42. B. T. GALLOWAY, 1893, in the absence of F. V. COVILLE.
43. CHAS. R. BARNES,* 1894.
44. B. T. GALLOWAY, 1895. M. B. WAITE, 1895.
45. GEORGE F. ATKINSON, 1896.
46. F. C. NEWCOMBE, 1897.
47. ERWIN F. SMITH, 1898.
48. W. A. KELLERMAN,* 1899.
49. D. T. MACDOUGAL, 1900.
50. ERNST A. BESSEY, 1901, in the absence of A. S. HITCHCOCK.
51. H. VON SCHRENK, 1902.
52. C. J. CHAMBERLAIN, 1902.
53–55. F. E. LLOYD, 1903–1905.
56. G. F. ATKINSON, 1906, in the absence of F. E. LLOYD.
57. TRACY E. HAZEN, 1906, in the absence of F E. LLOYD.
58. HENRY C. COWLES, 1907, in the absence of F. E. LLOYD.
59–64. HENRY C. COWLES, 1908–1912.

Section H.—Anthropology and Psychology.

31. OTIS T. MASON,* 1882.
32. G. H. PERKINS, 1883.
33. G. H. PERKINS, 1884, in the absence of W. H. HOLMES.
34. ERMINNIE A. SMITH,* 1885.
35. A. W. BUTLER, 1886.
36. CHAS. C. ABBOTT, 1887, in the absence of F. W. LANGDON.
37. FRANK BAKER, 1888.
38. W. M. BEAUCHAMP, 1889.
39. JOSEPH JASTROW, 1890.
40. W. H. HOLMES, 1891.
41. W. M. BEAUCHAMP, 1892, in place of STEWART CULIN, resigned.
42. W. K. MOOREHEAD, 1893.
43. A. F. CHAMBERLAIN, 1894.
44. STEWART CULIN and W. W. TOOKER, 1895, in place of ANITA N. MCGEE, res'd.

SECRETARIES OF THE SECTIONS, CONTINUED.

45. G. H. PERKINS, 1896, in place of J. G. BOURKE,* deceased.
46. ANITA N. MCGEE, 1897, in place of HARLAN I. SMITH, resigned.
47. MARSHALL H. SAVILLE, 1898.
48. E. W. SCRIPTURE, 1899, in place of GEO. A. DORSEY, resigned.
49. FRANK RUSSELL,* 1900.
50. G. G. MACCURDY, 1901.
51. HARLAN I. SMITH, 1902.
52. R. B. DIXON, 1902.
53–60. GEO. H. PEPPER, 1903–08.
61–65. GEO. G. MACCURDY, 1909–1913.

Section I.—Social and Economic Science.

31. { FRANKLIN B. HOUGH,* 1882.
{ J. RICHARDS DODGE,* 1882.
32. JOSEPH CUMMINGS,* 1883.
33. CHARLES W. SMILEY, 1884.
34. CHAS. W. SMILEY, 1885, in the absence of J. W. CHICKERING.
35. H. E. ALVORD,* 1886.
36. W. R. LAZENBY, 1887.
37. CHARLES S. HILL, 1888.
38. J. RICHARDS DODGE,* 1889.
39. B. E. FERNOW, 1890.
40. B. E. FERNOW, 1891.
41. HENRY FARQUHAR, 1892, in place of L. F. WARD, made Vice-President.
42. NELLIE S. KEDZIE, 1893.
43. MANLEY MILES,* 1894.
44. W. R. LAZENBY, 1895, in place of E. A. ROSS, resigned.
45. R. T. COLBURN, 1896.
46. ARCHIBALD BLUE, 1897.
47. MARCUS BENJAMIN, 1898.
48. CALVIN M. WOODWARD, 1899.
49. H. T. NEWCOMB, 1900.
50. R. A. PEARSON, 1901, in place of CORA A. BENNESON, resigned.
51. F. R. RUTTER, 1902, in place of WALTER F. WILLCOX, resigned.
52. F. H. HITCHCOCK, 1902.
53–57. J. F. CROWELL, 1903–1906.
58–60. J. PEASE NORTON, 1907–1908.
61. JNO. F. CROWELL, 1909, in place of J. P. NORTON, resigned.
62. FRED. C. CROXTON, 1910.
63–67. SEYMOUR C. LOOMIS, 1911–1915.

Section K.—Physiology and Experimental Medicine.

51. F. S. LEE, 1902.
52. F. S. LEE, 1903.
53. F. S. LEE, 1904.
54–60. W. J. GIES, 1904–1908.
61–63. GEORGE T. KEMP, 1909–1911.
64–65. ———, 1912–1913, in place of WALDEMAR KOCH, deceased.

Section L.—Education.

58. E. L. THORNDIKE, 1907, pro tem.
59–64. C. RIBORG MANN, 1908–1912.

TREASURERS.

1. JEFFRIES WYMAN,* 1848.
2. A. L. ELWYN,* 1849.
3. ST. J. RAVENEL,* 1850, in the absence of A. L. ELWYN.*
4. A. L. ELWYN,* 1850.
5 SPENCER F. BAIRD,* 1851, in the absence of A. L. ELWYN.*
6–7. A. L. ELWYN,* 1851–53.
8. J. L. LECONTE,* 1854, in the absence of A. L. ELWYN,*
9–19. A. L. ELWYN,* 1855–1870.
20–30. WM. S. VAUX,* 1871–1881.
32–42. WM. LILLY,* 1882–1893.
43–49. R. S. WOODWARD, 1894–1900.
50–54. R. S. WOODWARD, 1901–1905.
55–61. R. S. WOODWARD, 1906–1909.
62–63. R. S. WOODWARD, 1910–1911.

Commonwealth of Massachusetts.

In the Year One Thousand Eight Hundred and Seventy-Four.

AN ACT

TO INCORPORATE THE "AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge, and John LeConte of Philadephia, their associates, the officers and members of the Association known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding, and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

SECTION 2. Said corporation may have and hold by purchase, grant, gift, or otherwise, real estate not exceeding one hundred thousand dollars in value, and personal estate of the value of two hundred and fifty thousand dollars.

SECTION 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

SECTION 4. This act shall take effect upon its passage.

HOUSE OF REPRESENTATIVES, March 10, 1874.
Passed to be enacted,
JOHN E. SANFORD, *Speaker.*

IN SENATE, March 17, 1874.
Passed to be enacted,
GEO. B. LORING, *President.*

March 19, 1874.
Approved.
W. B. WASHBURN

SECRETARY'S DEPARTMENT,
Boston, April 3, 1874.
A true copy, Attest:
DAVID PULSIFER,
Deputy Secretary of the Commonwealth.

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERSHIP.

ART. 2. The Association shall consist of members, fellows, patrons, corresponding members and honorary fellows.

MEMBERS.

ART. 3. Any person may become a member of the Association upon recommendation in writing by two members or fellows, and election by the Council. Any incorporated scientific society or institution, or any public or incorporated library, may be enrolled as a member of the Association by vote of the Council by payment of the initiation fee; such society, institution, or library may be represented by either the President, Curator, Director, or Librarian presenting proper credentials at any meeting of the Association for which the assessment has been paid.

ASSOCIATES.

Associates for any single meeting shall be admitted on the payment of three dollars, such associates to have all the privileges of the meeting, except reading papers and voting.

Members of scientific societies whose meetings are contemporaneous with, or immediately subsequent to, that of the Association, and which

are recognized by vote of the Council as "Affiliated Societies," may become associate members for that meeting on the payment of three dollars. They shall be entitled to all the privileges of membership except voting or appointment to office, but their names shall not appear in the list of members printed in the annual report.

Foreign Associates.

Any member or fellow of any national scientific or educational institution, or of any society or academy of science, of any country not in America, who may be present at any meeting of the Association shall, on presenting the proper credentials, be enrolled without fee as a Foreign Associate, and shall be entited to all the privileges of the meeting except voting on matters of business.

Fellows.

Art. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have, by their labors, aided in advancing science. The election of fellows shall be by ballot, and a majority vote of the members of the Council at a designated meeting of the Council.

Patrons.

Art. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a patron, and shall be entitled to all the privileges of a member and to all its publications.

Honorary Fellows and Corresponding Members.

Art. 6. Honorary fellows of the Association, not exceeding three for each Section, may be elected, the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary fellows shall be entitled to all the privileges of fellows, and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding members shall consist of such scientists not residing in America as may be elected by the Council, and their number shall be limited to fifty. Corresponding members shall be entitled to all the privileges of members and to the annual volumes of Proceedings published subsequent to their election.

SUSPENSIONS.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided, that two notices of indebtedness, at an interval of at least three months, shall have been given, and no such person shall be restored until he has paid his arrearages or has been re-elected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

OFFICERS.

ART. 8. No member or fellow shall take part in the organization of or hold office in, more than one section at any one meeting.

ART. 9. The officers of the Association shall be elected by ballot by the General Committee from the fellows, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, the Treasurer, and the Secretaries of the Sections, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be re-eligible for the next two meetings. The term of office of the Permanent Secretary, of the Treasurer, and of the Secretaries of the Sections, shall be five years.

PRESIDENT.

ART. 10. The President, or, in his absence, the senior Vice-President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

VICE-PRESIDENTS.

ART. 11. The Vice-Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own Section, at such time as the

Council shall determine, at the meeting subsequent to that at which he presides. The Vice-Presidents may appoint temporary chairmen to preside over the sessions of their Sections, but shall not delegate their other duties. The Vice-Presidents shall have seniority in order of their continuous membership in the Association.

General Secretary.

Art. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

Secretary of the Council.

Art. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

Permanent Secretary.

Art. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication in the annual volume of Proceedings. He shall attend to the printing and distribution of the annual volume of Proceedings, and all other printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees,

and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets, and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the intervals between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

Treasurer.

Art. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council. The Treasurer shall give bonds for the faithful performance of his duty in such manner and sum as the Council shall from time to time direct.

Secretaries of the Sections.

Art. 16. The Secretaries of the Sections shall keep the records of their respective Sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the sectional committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

Vacancies.

Art. 17. In case of a vacancy in the office of President, the senior Vice-President shall preside, as provided in Article 10, until the General Com-

mittee can be assembled and the vacancy filled by election. Vacancies in the offices of Vice-President, Permanent Secretary, Secretary of the Council, Secretaries of the Sections, and Treasurer, shall be filled by the Council by ballot.

COUNCIL.

ART. 18. The Council shall consist of the Past Presidents, and the Vice-Presidents of the last two meetings, together with the President, the Vice-Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, of one fellow elected from each Section by ballot on the first day of its meeting, of one fellow elected by each affiliated society, and one additional fellow from each affiliated society having more than twenty-five members who are fellows of the Association, and of nine fellows elected by the Council, three being annually elected for a term of three years. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the program for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the Council room at 9 o'clock A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall decide which papers discussions, and other proceedings shall be published, and have the general direction of the publications of the Association: manage the financial affairs of the Association; arrange the business and programs for General Sessions; suggest subjects for discussion, investigation or reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General Session as the Council shall direct. The Council shall appoint at each meeting the following subcommittees who shall act, subject to appeal to the whole Council,

until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

General Committee.

Art. 19. The General Committee shall consist of the Council and one member or fellow elected by each of the Sections, who shall serve until their successors are elected. It shall be the duty of the committee to meet at the call of the President and elect the general officers for the following meeting of the Association. It shall also be the duty of this committee to fix the time and place for the next meeting. The Vice-President and Secretary of each Section shall be recommended to the General Committee by the Sectional Committee.

Meetings.

Art. 20. The Association shall hold a public meeting annually for one week or longer, at such time and place as may be determined by vote of the General Committee, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

But, if suitable preliminary arrangements cannot be made, the Council may afterwards change the time and place appointed by the General Committee, if such change is believed advisable by two-thirds of the members present.

Art. 21. A General Session shall be held at 10 o'clock A. M., on the first day of the meeting, and at such other times as the Council may direct.

Sections and Subsections.

Art. 22. The Association shall be divided into Sections, namely:—A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to Agriculture and the Arts;* D, *Mechanical Science and Engineering;* E, *Geology and Geography;* F, *Zoology;* G, *Botany;* H, *Anthropology and Psychology;* I, *Social and Economic Science;* K, *Physiology and Experimental Medicine;* L, *Education.* The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice-President and Secretary of the Sections comprising it.

SECTIONAL COMMITTEES.

ART. 23. Immediately on the organization of a Section there shall be a member or fellow elected by ballot after open nomination, who, with the Vice-President and Secretary and the preceding Vice-President and the Presidents and Secretaries of those affiliated societies which shall be designated by the Council and the members or fellows elected by ballot at the four preceding meetings, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session. The Sectional Committee may invite distinguished foreign associates present at any meeting to serve as honorary members of said Committee.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. No paper shall be read in any Section or Subsection until it has been placed on the program of the day by the Sectional Committee.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programs and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programs except such as have passed the Committee. No change shall be made in the program for the day in a Section without the consent of the Sectional Committee. The Sectional Committee may refuse to place the title of any paper on the program; but every such title, with the abstract of the paper or the paper itself, must be referred to the Council with the reasons why it was refused. The Sectional Committee shall also make nominations to the General Committee for Vice-President and Secretary of their respective Sections as provided for in Article 19.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the Sections, and they shall not place on the program any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS.

ART. 28. All members and fellows must forward to the Secretary of the proper Section or to the Permanent Secretary, as early as possible, and when practicable before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be considered by a Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready when called upon, in the regular order of the official program, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections, shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

PRINTED PROCEEDINGS.

ART. 31. The Permanent Secretary shall have the Proceedings of each meeting printed in an octavo volume as soon after the meeting as possible, beginning one month after adjournment. Authors must prepare their papers or abstracts ready for the press, and these must be in the hands of the Secretaries of the Sections before the final adjournment of the meeting, otherwise only the titles will appear in the printed volume. The Council shall have power to order the printing of any paper by abstract or title only. Whenever practicable, proofs shall be forwarded to authors for revision. If any additions or substantial alterations are made by the author of a paper after its submission to the Secretary, the same shall be distinctly indicated. Illustrations must be provided for by the authors of the papers, or by a special appropriation from the Council. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shal be distributed.

LOCAL COMMITTEE.

ART. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular giving necessary particulars, at least one month before the meeting.

LIBRARY OF THE ASSOCIATION.

ART. 33. All books and pamphlets received by the Association shall be in charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense on their giving a receipt agreeing to make good any loss or damage, and to return the same free of expense to the Permanent Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council. [The Library of the Association was, by vote of the Council in 1895, placed on deposit in the Library of the University of Cincinnati, Ohio. Members can obtain the use of books by writing to the Librarian of the University Library, Cincinnati, Ohio.]

ADMISSION FEE AND ASSESSMENTS.

ART. 34. The admission fee for members shall be five dollars in addition to the annual dues.

ART. 35. The annual dues for members and fellows shall be three dollars.

ART. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member, and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association;

but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council. (New members becoming life members must pay the admission fee of five dollars.)

ART. 37. All fees and dues must be paid to the Permanent Secretary, who shall give proper receipts for the same.

ACCOUNTS.

ART. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually by Auditors appointed by the Council.

ALTERATIONS OF THE CONSTITUTION.

ART. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS AND FELLOWS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE.

PATRONS.

[Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications. The names of Patrons are to remain permanently on the list.]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22). (Died July, 1899.)

LILLY, GEN. WILLIAM, Mauch Chunk, Pa. (28). (Died December 1, 1893.)

HERRMAN, MRS. ESTHER, New York, N. Y. (29). (Died July 4, 1911.)

MCMILLIN, EMERSON, 40 Wall Street, New York, N. Y. (37).

HONORARY FELLOW.

[See ARTICLE VI of the Constitution.]

*WESTINGHOUSE, GEORGE, Pittsburg, Pa. (50). 1902. D

MEMBERS AND FELLOWS.

The names designated by an asterisk (*) are those of Fellows. (See ARTICLE IV of the Constitution.) The number in parenthesis indicates the meeting at which the Member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the Sections to which the Member or Fellow belongs. When the name is given in small capitals, it designates that the Member or Fellow is also a Life Member. Any Member or Fellow may become a Life Member by the payment of fifty dollars. (New members becoming Life Members must pay the admission fee of five dollars.) The income of the money derived from a life membership is used for the general purposes of the Association during the life of the Member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the publications. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

The Constitution requires that the names of all Members two years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the publications of the Association, including the journal *Science*. ($1.00 foreign postage on *Science* extra.)

[NOTE.—The omission of an address in the following list indicates that letters mailed to that last printed were returned as uncalled for. Information as to the present address of the members so indicated is requested by the PERMANENT SECRETARY.]

Aaronsohn, Dr. Aaron, Jewish Agricultural Experiment Station, Haifa, Palestine, Turkey, Asia. (61). **G**

Abadie, Eugene H., Consulting Engineer, Third National Bank Buildi,ng St. Louis, Mo. (58). **D**

*Abbe, Cleveland, Ph. D., LL. D., U. S. Weather Bureau, Washington, D. C. (16). 1874. **A B**

*Abbe, Cleveland, Jr., Ph. D., U. S. Weather Bureau, Washington, D. C. (44). 1899. **E**

*Abbe, Robert, M. D., 13 West 50th St., New York, N. Y. (36). 1892. **K**

Abbey, Charles A., 455 East 18th St., Brooklyn, N. Y. (62).

*Abbot, Charles Greeley, Smithsonian Institution, Washington, D. C. (49). 1902. **B**

ABBOT, E. STANLEY, M. D., First Assistant Physician, McLean Hospital, Waverly, Mass. (54). **K**

*Abbott, Alexander Crever, M. D., Sc. D., University of Pennsylvania, Philadelphia, Pa. (52). 1905. **K**

Abbott, Edwin K., M. D., Monterey, Cal. (60). **K**

Abbott, Edwina, Lane, Kans. (61).

Abbott, Frank L., Professor of Physical Sciences, State Normal School, Greeley, Colo. (50). **B E**

*Abbott, James Francis, Ph. D., Professor of Zoology, Washington University, St. Louis, Mo. (58). 1910. **F**

Abbott, Samuel A. B., Villa Lontana, via Cassia, Rome, Italy. (60).

Abbott, Theodore Sperry, C. E., Saltillo, Coahuila, Mexico. (52). **D**

*Abel, John Jacob, M. D., Professor of Pharmacology, Johns Hopkins University, Baltimore, Md. (51). 1902. **C K**

Abercrombie, Ronald Taylor, M. D., Homewood Apartments, Charles and 31st Sts., Baltimore, Md. (60). **K**

Abrams, Duff Andrew, C. E., Laboratory of Applied Mechanics, University of Illinois, Urbana, Ill. (60). **D**

*Abrams, LeRoy, Associate Professor of Botany, Stanford University, Cal. (54). 1909. **G**

Abt, Joseph L., M. D., 1832 South Halsted St., Chicago, Ill. (58). **K**

*Acheson, Edward Goodrich, Sc. D., President, International Acheson Graphite Company, Niagara Falls, N. Y. (50). 1903. C

Achorn, Kendall Lincoln, 178 Huntington Ave., Boston, Mass. (60). K

Ackerman, Ernest R., C. E., 506 W. 8th St., Plainfield, N. J. (60). D

Acland, F. A., Deputy Minister of Labor for Canada, Ottawa, Ontario, Canada. (60). I

*Acree, Solomon Farley, Ph. D., Associate Professor of Chemistry, Johns Hopkins University, Baltimore, Md. (58). 1910. C

Adair, Fred L., M. D., 820 Donaldson Building, Minneapolis, Minn. (61). K

Adam, George, M. D., 2937 Fillmore St., San Francisco, Cal. (60.) K

Adams, C. F., Entomologist, Agricultural Experiment Station, University of Arkansas, Fayetteville, Ark. (54). F

*Adams, Charles Christopher, Ph. D., Associate in Animal Ecology, University of Illinois, Urbana, Ill. (50). 1903. F

*Adams, Charles Francis, Head, Department of Physics, Central High School, Detroit, Mich. (53). 1906. B C

*Adams, Comfort Avery, Professor of Electrical Engineering, Harvard University, Cambridge, Mass. (47). 1910. B E

*Adams, Cyrus C., 134 Claremont Ave., New York, N. Y. (54). 1906. E

Adams, Edward Dean, Empire Building, 71 Broadway, New York, N. Y. (49).

*Adams, Edwin Plimpton, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (58). 1910. A B C

*Adams, Frank Dawson, Sc. D., Ph. D., Dean, Faculty of Applied Science, McGill University, Montreal, Canada. (60). 1910. E

Adams, Franklin, Pan American Union, Washington, D. C. (63).

Adams, Franklin L., Magnetic Observatory, U. S. Coast Survey, Sitka, Alaska. (61). A

Adams, Frederick Carhart, 28 Winnemay St., Natick, Mass. (50). B C L

Adams, George E., 108 So. La Salle St., Chicago, Ill. (58).

Adams, J. Pinckney H., Fairhaven, Vermont. (60). K

Adams, Matthew Prior, Instructor in Physics and Chemistry, State Normal School, Box 555, New Britain, Conn. (54). B C

*Adams, Maxwell, Ph. D., Professor of Chemistry, University of Nevada, Reno, Nevada. (57.) 1909. C

Adams, Thomas Edgar, 2235 East 40th St., Cleveland, Ohio. (63).

Adamson, George P., 233 Reeder St., Easton, Pa. (62). C

Addicks, John Edward, 3d, care of E. I. du Pont de Nemours Powder Co., 1st N. B. Building, Nashville, Tenn. (60). C E

Addison, Dr. Wm. H. F., School of Medicine, University of Pennsylvania, Philadelphia, Pa. (60). K

Aderhold, Thomas Maze, M. D., El Reno, Okla. (58). K

*Adler, Cyrus, Ph. D., 2041 North Broad St., Philadelphia, Pa. (54). 1906. H

Adler, Herman Morris, M. D., Danvers State Hospital, Hathorne, Mass. (60). C K

*Adler, Isaac, M. D., 22 East 62d St., New York, N. Y. (49). 1903. F K
*Adler, Leon N., Ph. D., 100 William St., New York, N. Y. (56). 1909. C
*Adriance, John S., Ph. D., Williamstown, Mass. (39). 1895. C
Adsit, Charles George, E. E., Tallulah Falls, Ga. (60). D
*Agnew, Paul Gough, Bureau of Standards, Washington, D. C. (54). 1910. B
Agrelius, Frank U. G., Assistant in Biology, Kansas State Normal School, Emporia, Kans. (60). F G
*Aguilera, José G., Director, Geological Institute of Mexico, 6a Del Cipres No. 176, Mexico, D. F., Mexico. (53). 1905. E
Ahern, Michael J., S. J., Canisius College, Buffalo, N. Y. (57). E
Aikin, Joseph M., M. D., Professor of Mental Diseases, University of Nebraska College of Medicine, Omaha, Nebr. (55). K
*Aikins, H. Austin, Ph. D., Western Reserve University, Cleveland, Ohio. (58). 1910. H L
Ailes, Hon. Milton E., Riggs National Bank, Washington, D. C. (52). I
Ainslie, Charles Nicolas, 1271 Kensington Ave., Salt Lake City, Utah. (60). F
Ainslie, Prof. George G., U. S. Entomological Laboratory, Nashville, Tenn. (58). F
Ainsworth, Herman Reeve, M. D., Addison, N. Y. (51). I K
*Aitken, Robert Grant, Sc. D., Lick Observatory, Mt. Hamilton, Cal. (53). 1906. A
Akeley, Lewis E., Professor of Physics and Chemistry, University of South Dakota, Vermilion, S. Dak. (51). B C
Akerley, Arthur W., M. D., National Soldiers Home Hospital, Milwaukee, Wis. (58). K
Akers, Oscar Perry, Ph. D., Meadville, Pa. (60). A
*Albert, Henry, M. D., Professor of Pathology and Bacteriology, State University of Iowa College of Medicine, Iowa City, Iowa. (57). 1910. K
Albrecht, Emil Poole, Secretary of the Bourse, 1523 North 17th St., Philadelphia, Pa. (51). A D
*Albrecht, Sebastian, Ph. D., Cordoba, Argentine Republic, S. A. (52). 1906. A
Albree, Chester B., M. E., 1115 Market St., Allegheny, Pa. (50). D
Alcott, Rev. William P., Boxford, Mass. (60).
Alden, Miss Isabel, 24 Waldron Ave., Summit, N. J. (60). G
*Alden, John, Chemist, Pacific Mills, Lawrence, Mass. (36). 1898. C
Alderman, William H., 184 1st St., Morgantown, W. Va. (62). G
*Alderson, Victor Clifton, Sc. D., President, Colorado School of Mines, Golden, Colo. (50). 1903. A D
Aldrich, Fred Davis, Worcester Academy, Worcester, Mass. (60). A
Aldrich, Loyal Blaine, Smithsonian Institution, Washington, D. C. (61). A B
*Aldrich, Wm. Sleeper, M. E., Powell, Wyoming. (43). 1897. D I L

Alexander, Daniel Basil William, 1000 Date St., Los Angeles, Cal. (57). C
Alexander, Harry, E. E., M. E., 18–20 West 34th St., New York, N. Y. (50). D
Alexander, Hugh S., Macalester College, St. Paul, Minn. (60).
Alexander, Kay, C. E., Sabinal, Texas. (58). D
Alexander, Robert Lee, C. E., Steilacoom, Washington. (60). D
Alexander, William DeWitt, LL. D., P. O. Box 732, Honolulu, Hawaii. (62).
*Aley, Robert Judson, Ph. D., LL. D., President, University of Maine, Orono, Me. (49). 1906. A
Alfred, C. Morton, M. D., 640 N. Columbus St., Lancaster, Ohio. (60). K
Allabach, Miss Lulu Florence, Teacher of Botany, 5th Avenue High School, Pittsburg, Pa. (52). F G
Allan, John A., Geological Department, Massachusetts Institute of Technology, Boston, Mass. (60). E
*Alleman, Gellert, Ph. D., Swarthmore College, Swarthmore, Pa. (50). 1909. C
*Allen, Bennet Mills, Ph. D., Assistant Professor of Anatomy, University of Wisconsin, Madison, Wis. (54). 1906. F K
*Allen, Charles Elmer, Ph. D., 2014 Chamberlin Ave., Madison, Wis. (55). 1908. G
Allen, Charles Metcalf, Assistant Professor of Experimental Engineering, Worcester Polytechnic Institute, Worcester, Mass. (52). D
*Allen, David R., Associate Professor of Mathematics, University of Utah, Salt Lake City, Utah. (57). 1909. A
*Allen, Edwin West, Ph. D., Editor, *Experiment Station Record*, U. S. Department of Agriculture, Washington, D. C. (52). 1909. C
Allen, Miss Eleanor W., 12 Commonwealth Ave., Boston, Mass. (60).
*Allen, Frank, Ph. D., Professor of Physics, University of Manitoba, Winnipeg, Manitoba, Canada. (49). 1903. B
Allen, George D., 1112 East University Ave., Mitchell, S. D. (62). F
Allen, Glover Morrill, Ph. D., 234 Berkeley St., Boston, Mass. (58). F
Allen, Harrison S., 120 Clowes Terrace, Waterbury, Conn. (60). C
Allen, James Lane, 130 West 57th St., New York, N. Y. (57). I
*Allen, Joel Asaph, Ph. D., American Museum of Natural History, New York, N. Y. (60). 1911. F H
Allen, John H., E. M., Walpole, Mass. (60). D
*Allen, Prof. Joseph, 9 Myrtle St., White Plains, N. Y. (58). 1909. A
Allen, Mrs. Martha M., Forest Hills Gardens, Elmhurst, L. I., N. Y. (62).
*Allen, Reginald Bryant, Ph. D., Professor of Mathematics, Kenyon College, Gambier, Ohio. (58). 1909. A
Allen, S. C., 43 Ambrose St. Rochester, N. Y. (60). C
Allen, Walter S., care General Chemical Co., Laurel Hill, L. I., N. Y. (58). C
Allen, William Frederick, 180 Scotland Road, South Orange, N. J. (55).
Aller, Henry Day, U. S. Bureau of Fisheries, Washington, D. C. (57). F

*Allis, Edward Phelps, Jr., LL. D., Palais de Carnolès, Mentone, South France. (52). 1905. F

*Allison, Charles Edward, M. D., Elysburg, Pa. (51). 1906. K

Allison, Samuel B., 6035 Drexel Ave., Chicago, Ill. (58).

Allorge, Maurice Marcel, Lecturer in Geomorphology, Merton College, Oxford, England. (60). E

*Almy, Frank Fayette, Ph. D., Professor of Physics, Iowa College, Grinnell, Iowa. (57). 1909. B

*Almy, John Edwin, Ph. D., Instructor in Physics, University of Nebraska, Lincoln, Nebr. (50). 1901. B

Alpers, Martin Edward, Jr., 94 Randolph Ave., Dover, N. J. (57). K

*Alpers, William Charles, Sc. D., 495 Columbus Ave., New York, N. Y. (50). 1911. I

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Alsop, E. B., 1502 20th St. N. W., Washington, D. C. (50). D

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*Alvord, John Watson, C. E., 5203 Hibbard Ave., Chicago, Ill. (58). 1911. D

*Alway, Frederick James, Ph. D., University of Nebraska, Lincoln, Nebr. (60). 1911. C

*Alwood, Prof. Wm. Bradford, "Stonehenge," Rio Road, Charlottesville, Va. (39). 1891. C G

*Amberg, Emil, M. D., 270 Woodward Ave., Detroit, Mich. (58). 1909. H K

Ames, Charles W., 501 Grand Ave., St. Paul, Minn. (61). L

Ames, Edward Scribner, Ph. D., Assistant Professor of Philosophy, University of Chicago, Chicago, Ill. (58).

*Ames, Oakes, Director, Botanic Garden of Harvard University, North Easton, Mass. (50). 1905. G

*Ami, Henry Marc, Sc. D., Geological Survey of Canada, Ottawa, Canada. (54). 1906. E F G H

Amstutz, Noah Steiner, E. E., Valparaiso, Ind. (60). D

Ancker, Walter, B. and O. Building, Baltimore, Md. (60).

*Anders, Howard S., M. D., 2035 Walnut St., Philadelphia, Pa. (51). 1911. B K L

Anderson, A. J. C., 127 Water St., New York, N. Y. (49).

*Anderson, Alexander Pierce, 5552 Everett Ave., Chicago, Ill. (45). 1899. G

Anderson, Andrew W., Professor of Psychology and Education, Macalester College, St. Paul, Minn. (62). H L

Anderson, David Guy, C. E., 4032 Walnut St., Philadelphia, Pa. (60). D

*Anderson, Douglas Smith, Professor of Electrical Engineering, Tulane University, New Orleans, La. (49). 1910. B D

*Anderson, F. Paul, M. E., Director, School of Mechanical and Electrical Engineering, State University of Kentucky, Lexington, Ky. (58). 1912. D

*Anderson, Frank, E. M., 468 12th East St., Salt Lake City, Utah. (50). 1906. D E

Anderson, Frank P., Epworth Seminary, Epworth, Iowa. (46).

Anderson, George Gray, C. E., 1232 First National Bank Building, Denver, Colo. (60). D

Anderson, Harry W., Department of Plant Pathology, University of Illinois, Urbana, Ill. (63). G

*Anderson, John F., M. D., U. S. Public Health and Marine Hospital Service, Washington, D. C. (58). 1908. K

Anderson, Robert B., M. D., 925 Sterling Place, Brooklyn, N. Y. (60). K

*Anderson, Robt. Van Vleck, U. S. Geological Survey, Washington, D. C. (57). 1911. E F

Anderson, Ross, M. D., Sharon Block, Salt Lake City, Utah. (60). K

Anderson, Rev. William Jenkins Webb, M. D., Burton House, Dewsbury Road, Leeds, England. (63). K

Anderson, Winslow, M. D., President, College of Physicians and Surgeons of San Francisco, 1065 Sutter St., San Francisco, Cal. (51). K

*Andrews, Clement Walker, Librarian, The John Crerar Library, Chicago, Ill. (53). 1908. C

Andrews, Daniel Marshall, C. E., P. O. Box 72, Rome, Ga. (60). D

*Andrews, Ethan Allen, Ph. D., Professor of Zoology, Johns Hopkins University, Baltimore, Md. (58). 1909. F

Andrews, Mrs. E. A., 821 St. Paul St., Baltimore, Md. (60). F H

*Andrews, Frank Marion, Ph. D., Assistant Professor of Botany, Indiana University, Bloomington, Ind. (52). 1903. G

*Andrews, Launcelot Winchester, Ph. D., 1719 Rock Island St., Davenport, Iowa. (58). 1909. C

Andrews, Roy Chapman, American Museum of Natural History, New York, N. Y. (62).

Andrews, William Edward, Principal, Township High School, Taylorville, Ill. (52). D

Andrews, William Symes, care General Electric Company, Schenectady, N. Y. (50). D E

Andrews, W. W., LL.D., Mt. Allison University, Sackville, N. B., Canada. (60). C

*Angela, Sister Helen, Ph. D., College of St. Elizabeth, Convent Station, N. J. (58). 1911. E G

Angell, William R., 801 West Adams St., Chicago, Ill. (58).

*Angier, Roswell Parker, Ph. D., Yale University, New Haven, Conn. (57). 1911. K

Angle, Edward H., M. D., 58 Bellevue Place, New London, Conn. (53). F

Ansley, William Bailey, M. D., 34 Indiana Ave., Saltsburg, Pa. (60). K

Anthony, Chas., Jr., C. E., Gen. Mgr., Bahia Blanca Waterworks Co., Casilla de Correo 149, Bahia Blanca, Argentine Rep., S. A. (60). D

*Anthony, Gardner Chace, Sc. D., Professor of Technical Drawing, and Dean, Engineering School, Tufts College, Mass. (56). 1912. D E

Anthony, Mrs. S. Reed, 113 Commonwealth Ave., Boston, Mass. (60).

Antisell, Frank Linden, M. E., Perth Amboy, N. J. (58). D

Apfel, Philip F., Raeco, Wash. (58). C

App, John C., Box 464, Charleston, W. Va. (60). C

Apple, A. Thomas G., Director, Daniel Scholl Observatory, Lancaster, Pa. (61). A

Apple, Joseph H., President, Woman's College, Frederick, Md. (52). I

Appleman, Charles Orval, Ph. D., Hyattsville, Md. (62).

*Appleton, John Howard, Sc. D., Professor of Chemistry, Brown University, Providence, R. I. (50). 1901. C

Appleton, William Day, E. E., Apartado 23, Zamora, Michoacan, Mexico. (58). D

Archer, William J., Superior, Wis. (58). C

*Archibald, Ebenezer Henry, Ph. D., Bowne Hall of Chemistry, Syracuse University, Syracuse, N. Y. (60). 1911. C

*Archibald, Raymond Clare, Ph. D., Brown University, Providence, R. I. (54). 1906. A

Archinard, Paul E., M. D., Professor of Neurology, Tulane University, New Orleans, La. (60). K

Arctowski, Henryk, N. Y. Public Library, 476 5th Ave., New York, N. Y. (63).

Arey, Prof. Melvin Franklin, 2320 Normal St., Cedar Falls, Iowa. (63). E

*Argall, Philip, First National Bank Building, Denver, Col. (54). 1906. C E

Argollo, Miguel T., C. E., Caixa 89, Bahia, Brazil, S. A. (60). D

Armfield, Frank, Monroe, N. C. (55). I

Armitage, Thomas L., M. D., Princeton, Minn. (51). K

*Arms, Burdett Loomis, M. D., 30 Huntington Ave., Boston, Mass. (60). 1911. K

*Armsby, Henry Prentiss, Ph. D., LL. D., Director, Institute of Animal Nutrition, Pennsylvania State College, State College, Pa. (52). 1903. C

ARMSTRONG, LIEUT. DONALD, U. S. A., Coast Artillery Corps, Fort Williams, Me. (62).

Armstrong, E. J., M. E., 954 West 9th St., Erie, Pa. (58). D

ARMSTRONG, FRANCIS TUTTLE, 565 West 115th St., New York, N. Y. (63).

Armstrong, Dr. John M., 436 Portland Ave., St. Paul, Minn. (60).

Armstrong, Lyndon K., E. M., Editor, *Northwest Mining News*, P. O. Drawer 2154, Spokane, Wash. (58). D

ARMSTRONG, SAMUEL T., M. D., Katonah, N. Y. (57). K

Arnold, Alma C., 2025 Broadway, New York, N. Y. (58). K

*Arnold, Bion Joseph, Sc. D., 4713 Kimbark Ave., Chicago, Ill. (50). 1903. D

Arnold, Ernst Hermann, M. D., Director, New Haven Normal School of Gymnastics, 46 York Square, New Haven, Conn. (52). K

Arnold, Felix, Ph. D., 34 St. Nicholas Place, New York, N. Y. (58). H L

Arnold, Harold De Forrest, 128 Academy St., Belleville, N. J. (57). B

*Arnold, Ralph, Ph. D., Suite 917–923 Union Oil Building, Los Angeles, Cal. (51). 1906. E

*Arny, Henry Vinecombe, Ph. D., New York College of Pharmacy, 115 West 68th St., New York, N. Y. (60). 1911. C

*Arps, George Frederick, Ph. D., 1012 So. 6th St., Champaign, Ill. (62). 1911. H

Arter, Frank A., 8522 Euclid Ave., Cleveland, Ohio. (63).

*Arthur, Joseph Charles, Sc. D., Agricultural Experiment Station, Purdue University, La Fayette, Ind. (21). 1883. G

Ashbrook, Donald Sinclair, 16 Willard St., Wilmington, Del. (51). C

*Ashley, George Hall, Ph. D., Capitol Annex, Nashville, Tenn. (51). 1903. E F

Ashmead, Percy Herbert, C. E., Plandome, L. I., N. Y. (60). D

Ashworth, D. Irving, P. O. Box 38, Wappinger's Falls, N. Y. (58). C

Aspinwall, John, Newburgh, N. Y. (49).

Atkins, Martin D., 269 Forest Ave., River Forest, Ill. (48). B

Atkinson, Albert A., E. E., Professor of Physics and Electrical Engineering, Ohio University, Athens, Ohio. (60). D

Atkinson, Alfred, Professor of Agronomy, care of Montana Agricultural College, Bozeman, Mont. (62). G

Atkinson, Daniel Armstrong, M. D., 132 Oakwood Ave., West View, Pa. (56). K

*Atkinson, George Francis, Ph. D., Professor of Botany, Cornell University, Ithaca, N. Y. (39). 1892. G

Atkinson, J. W., 310 Sansom St., San Francisco, Cal. (60). C

*Attix, James Conner, M. D., 2355 N. 13th St., Philadelphia, Pa. (60). 1911. K

*Atwell, Prof. Charles Beach, Northwestern University, Evanston, Ill. (36). 1890. G

*Atwood, Wallace Walter, Ph. D., Assistant Professor of Physiography and General Geology, University of Chicago, Chicago, Ill. (58). 1910. E L

Aue, Joseph E., M. E., care of Chief Engineer, United Natural Gas Co., Oil City, Pa. (58). D

Aurness, Peter A., M. D., 1937 Park Ave., Minneapolis, Minn. (60). K

Austin, Prof. Clift F., care of Cuba Fruit Exchange, Box 1103, Havana, Cuba. (54). G

Austin, F. E., E. E., P. O. Box 293, Hanover, N. H. (57). D

*Austin, Oscar P., Chief, Bureau of Statistics, Department of Commerce and Labor, Washington, D. C. (51). 1907. I

*Avery, Samuel, Ph. D., LL. D., Director, Chemical Laboratories, and Chancellor, University of Nebraska, Lincoln, Nebr. (57). 1908. C

Ayer, Edward Everett, 1515 Railway Exchange Building, Chicago, Ill. (37). H

Aylmer, Arthur L., M. D., 329 Central Ave., Minneapolis, Minn. (60). K

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Ayres, George Frederic, Ph. D., President, Lindenwood Female College, St. Charles, Mo. (58).

*Ayres, Horace Beemer, Aitkin, Minn. (40). 1911. G

Ayres, Leonard P., Ph. D., 1 Madison Ave., New York, N. Y. (63).

Ayres, Thomas Willard, Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (60). G

*Babasinian, Vahan S., Ph. D., Instructor in Organic Chemistry, Lehigh University, South Bethlehem, Pa. (57). 1910. C

*Babb, Maurice Jeffries, Ph. D., Box 6, College Hall, University of Pennsylvania, Philadelphia, Pa. (60). 1911. A

Babcock, Earle Brownell, 5546 Madison Ave., Chicago, Ill. (58).

*Babcock, Earle J., Professor of Chemistry and Dean, College of Mining Engineering, University of North Dakota, Grand Forks, N. Dak. (58). 1910. C D

*Babcock, Ernest Browne, Assistant Professor of Plant Pathology, University of California, Berkeley, Cal. (57). 1911. G

Babcock, Harold D., Physicist and Assistant Astronomer, Mt. Wilson Solar Observatory, Pasadena, Cal. (62). A B

*Babcock, Stephen Moulton, Ph. D., LL. D., Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (33). 1885. C

Babcock, William Wayne, M. D., 2033 Walnut St., Philadelphia, Pa. (54). K

*Baber, Miss Zonia, Associate Professor of Geography, College of Education, University of Chicago, Chicago, Ill. (54). 1906. E

Back, Ernest Adna, Ph. D., State Entomologist, Blacksburg, Va. (58). F

Backus, Cyrus Day, E. E., U. S. Patent Office, Washington, D.C. (60). D

*Bacon, Arthur Avery, Professor of Physics, Hobart College, Geneva, N. Y. (53). 1911. B

Bacon, Charles Sumner, M. D., 2156 Sedgwick St., Chicago, Ill. (58). K

Bacon, Prof. George Preston, Weld and Corey Sts., West Roxbury, Mass. (58). B

*Baekeland, Leo Hendrick, Sc. D., "Snug Rock," Harmony Park, Yonkers, N. Y. (57). 1908. C

Baerecke, John F., M. D., Ph. D., Professor of Biology, Stetson University, De Land, Fla. (50). F K

*Bagg, Rufus Mather, Jr., Ph. D., Lawrence College, Appleton, Wis. (49). 1903. E

BAGGALEY, RALPH, Pittsburg, Pa. (50). D

Bagley, William Chandler, Ph. D., Director, School of Education, University of Illinois, Urbana, Ill. (60). L

Bagot, C. G. Seymour, E. E., Quathiaski Cove, B. C., Canada. (60). D

*Bailey, Edgar H. S., Ph. D., Professor of Chemistry, University of Kansas, Lawrence, Kans. (25). 1889. C K

Bailey, Edward P., 36 Ash St., Brockton, Mass. (52). E

Bailey, Ernest W., Department of Horticulture, University of Illinois, Champaign, Ill. (62).

*Bailey, Capt. Frank H., U. S. N., care Navy Department, Washington, D. C. (52). 1912. D

*Bailey, Solon Irving, Associate Professor of Astronomy, Harvard College Observatory, Cambridge, Mass. (50). 1901. A

*Bailey, Vernon, U. S. Department of Agriculture, Washington, D. C. (52). 1904. F

*Bain, Samuel McCutcheon, Professor of Botany, University of Tennessee, Knoxville, Tenn. (50). 1902. G

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Baird, Arthur C., 505 Lincoln Ave., Pittsburg, Pa. (60). A

*Baird, John Wallace, Ph. D., Professor of Psychology, Clark University, Worcester, Mass. (53). 1905. H

*Baird, Lucy H., 341 South 18th St., Philadelphia, Pa. (54). 1906. I

Baird, William C., M. D., 1320 No. Tejon St., Colorado Springs, Colo. (60). K

Baker, A. H., V. S., 2537 State St., Chicago, Ill. (58). K L

*Baker, Charles Fuller, Pomona College, Claremont, Cal. (54). 1906. F G

Baker, Edward Hall, M. D., 5729 Kimbark Ave., Chicago, Ill. (58). K

Baker, Ezra F., Huron College, Huron, S. Dak. (57). H

*Baker, Frank, M. D., Ph. D., Superintendent, U. S. National Zoological Park, Washington, D. C. (31). 1886. F G H I K L

Baker, Frank Collins, Curator and Secretary, Chicago Academy of Sciences, Chicago, Ill. (58).

Baker, Horace Burrington, University of Michigan Museum, Ann Arbor, Mich. (60).

*Baker, Hugh Potter, Professor of Forestry, Pennsylvania State College, State College, Pa. (51). 1911. G

*Baker, James Hutchins, LL. D., President, University of Colorado, Boulder, Colo. (50). 1903. I

Baker, Leonard T., University of S. C., Columbia, S. C. (60).

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*Baker, Robt. H., Ph. D., Asst. Professor of Astronomy, Brown University, Providence, R. I. (54). 1907. A

Baker, Ross Allen, Department of Chemistry, University of Wisconsin, Madison, Wis. (58). C

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Baker, William C., M. D., Hummelstown, Pa. (60). K

*Bakewell, Charles Montague, P. O. Box 813, Yale Station, New Haven, Conn. (54). 1906. I

Bakke, Arthur L., Instructor in Botany, Iowa State College, Ames, Iowa. (62). G

*Balch, Alfred William, M. D., Tufts College Medical School, Boston, Mass. (52). 1911. C K

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Balch, Francis Noyes, Hunneman & Balch, 60 State St., Boston, Mass. (50). F

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Balcomb, Jean Bart, E. E., Alberson, Oregon. (60). D

Baldwin, A. D., Station H, Cleveland, Ohio. (63).

Baldwin, Bird T., Ph. D., Associate Professor of Education, and Head of School of Practise Teaching, University of Texas, Austin, Texas. (58.) H L

Baldwin, David Dwight, Haiku, Maui, Hawaii. (62).

Baldwin, Mrs. Gertrude H., Allenhurst, N. J. (34). H

Baldwin, Herbert B., Analytic and Consulting Chemist, 927 Broad St., Newark, N. J. (43). C

*BALDWIN, S. PRENTISS, 2930 Prospect Ave., Cleveland, Ohio. (47). 1900. E

*BALDWIN, HON. SIMEON E., Governor of Connecticut, New Haven, Conn. (50). 1901.

*Baldwin, Wesley Manning, Cornell Medical College, New York, N. Y. (58). 1911. K

*Balke, Clarence William, Ph. D., 805 Nevada St., Urbana, Ill. (58). 1911. C

Ball, Albert, Assistant in Physics, Cooper Union, New York, N. Y. (58). B

*Ball, Carleton R., U. S. Department of Agriculture, Washington, D. C. (49). 1902. G

*Ball, Elmer Darwin, Ph. D., Professor of Zoology and Entomology, Utah Agricultural College, Logan, Utah. (50). 1903. F

Ball, Miss Helen Augusta, 43 Laurel St., Worcester, Mass. (50).

Ball, Max W., U. S. Geological Survey, Washington, D. C. (62). E

Ball, Michael V., M. D., Warren, Pa. (60). K

Ballard, Caswell A., Curator of Museum, State Normal School, Moorhead, Minn. (51).

Ballard, William Salisbury, U. S. Department of Agriculture, Washington, D. C. (63). G

*Balliet, Thomas M., New York University, Washington Square, New York, N. Y. (48). 1903. H I

Ballinger, T. Dudley, Allegheny College, Meadville, Pa. (63). F G

Ballou, Henry Arthur, Entomologist, Imperial Department of Agriculture, Barbados, B. W. I. (56). F G

Balta, José, E. M., Mogollon 13, Lima, Peru, S. A. (60). D

BALTZELL, WILLIAM HEWSON, Wellesley, Mass. (60).

*Bancroft, Frank Watts, Ph. D., Rockefeller Institute for Medical Research, New York, N. Y. (50). 1907. F K

Bancroft, Miss Jessie Hubbell, Assistant Director of Physical Training, Department of Education, New York, N. Y. (58). L

Bancroft, J. Sellers, M. E., 917 Pine St., Philadelphia, Pa. (51). D

*Bancroft, Wilder Dwight, Ph. D., Professor of Physical Chemistry, Cornell University, Ithaca, N. Y. (50). 1901. B C

Banga, Henry, M. D., 1242 La Salle Ave., Chicago, Ill. (60). K

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*Banker, Howard James, Ph. D., Professor of Biology, Depauw University, Greencastle, Ind. (51). 1905. G

Banks, Charles S., Box 774, Bureau of Science, Manila, P. I. (57). F

Banks, Harry Pickands, The Rookery, 217 LaSalle St., Chicago, Ill. (58). C D

Banks, John Edwin, C. E., American Bridge Co., Ambridge, Pa. (60). D

Banta, Arthur Mangun, Ph. D., Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (53). F

Banzhaf, Edwin J., Research Laboratory, East 16th St., New York, N. Y. (60). C K

Barber, Herbert S., U. S. National Museum, Washington, D. C. (58). F

Barbour, Miss Carrie Adeline, Department of Geology, University of Nebraska, Lincoln, Nebr. (53). E

*Barbour, Erwin Hinckley, Ph. D., Professor of Geology, University of Nebraska, Lincoln, Nebr. (45). 1898. E

*Barbour, Thomas, Museum of Comparative Zoology, Cambridge, Mass. (52). 1907. F

Barck, Carl, M. D., 2715 Locust St., St. Louis, Mo. (52). K

*Bardeen, Charles Russell, M. D., Professor of Anatomy, University of Wisconsin, Madison, Wis. (50). 1901. F K

Bardeen, Charles William, 315 E. Washington St., Syracuse, N. Y. (52).

*Bardwell, Fred Leslie, Assistant Professor of Chemistry, Case School of Applied Science, Cleveland, Ohio. (60). 1910. C

Barger, Thomas M., 2725 59th Court, Cicero, Ill. (58).

Barhydt, Mrs. P. Hackley, 40 East 70th St., New York, N. Y. (57).

*Barkan, Adolph, M. D., LL.D., 2209 Laguna St., San Francisco, Cal. (51). 1909. K

Barker, Franklin Davis, Ph. D., Associate Professor of Zoology, University of Nebraska, Lincoln, Neb. (62). F

Barker, Franklin Luther, Professor of Geography, University of Oregon, Eugene, Oregon. (63). E

*Barker, Lewellys Franklin, M. D., Professor of Medicine, Johns Hopkins University, Baltimore, Md. (57). 1908. K

Barlow, Bronson, Secretary, Rio Grande Nursery Company, Canutillo, Texas. (61). G

Barlow, John, Professor of Zoology, Rhode Island State College, Kingston, R. I. (51). F

*Barlow, William Edward, Ph. D., Virginia Polytechnic Institute, Blacksburg, Va. (60). 1911. C

*BARNARD, EDWARD EMERSON, Sc. D., LL. D., Yerkes Observatory, Williams Bay, Wis. (26). 1883. A

Barnes, Carl Lewis, M. D., 1977 Ogden Ave., Chicago, Ill. (58). K

Barnes, Cecil, 20 East Goethe St., Chicago, Ill. (57). E

Barnes, Edward W., P. O. Box 446, New York, N. Y. (49).

Barnes, Francis Merriman, Jr., Government Hospital for the Insane, Anacostia, D. C. (61). K

*Barnes, Fred Asa, Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. (56). 1912. D

*Barnes, Howard Turner, Sc. D., Ph. D., Department of Physics, McGill University, Montreal, Canada. (57). 1909. B

Barnes, T. Howard, C. E., Room 1603, 17 Battery Place, New York, N. Y. (60). D

Barnes, William, M. D., Decatur, Ill. (57). K

*Barnett, Samuel Jackson, Ph. D., Asst. Professor of Physics, Ohio State University, Columbus, Ohio. (58). 1910. B

Barnett, Victor H., U. S. Geological Survey, Washington, D. C. (62). E

Barney, Edgar S., C. E., 36 Stuyvesant St., New York, N. Y. (58). D

Barney, Ida, Ph. D., Rollins College, Winter Park, Fla. (63).

Barney, Samuel E., C. E., 346 Whitney Ave., New Haven, Conn. (58). D

Barnhart, Arthur M., 4455 Drexel Boulevard, Chicago, Ill. (42).

Barnhart, J. M., 707 W. Illinois St., Urbana, Ill. (60). C

*BARNHART, JOHN HENDLEY, M. D., New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1903. G K

*Barnum, Charlotte C., Ph. D., U. S. Department of Agriculture, Washington, D. C. (36). 1896. A I

Barnum, William M., 62 Cedar St., New York, N. Y. (57).

*Barr, John Henry, care Smith Premier Works, Syracuse, N. Y. (51). 1903. D

*Barre, Henry Walter, Associate Professor of Botany and Bacteriology, Clemson Agricultural College, Clemson College, S. C. (58). 1911. G

*Barrell, Joseph, Ph. D., Yale University Museum, New Haven, Conn. (51). 1905. E

Barrett, James Theophilus, 406 East Chalmers St., Champaign, Ill. (58). G

Barrett, Otis Warren, Chief, Division of Experiment Stations, Bureau of Agriculture, Manila, P. I. (58). E F G H K

*Barrett, Samuel Alfred, Ph. D., Curator, Public Museum, Milwaukee, Wis. (58). 1910. H

Barrett, Storrs Barrows, Secretary, Yerkes Observatory, Williams Bay, Wis. (58). A

Barrett, W. E., Glen Olden, Pa. (60). A

Barrie, Dr. George, 601 West 110th St., New York, N. Y. (49). H I

*Barringer, Daniel Moreau, Geologist and Mining Engineer, 370 Bullitt Building, Philadelphia, Pa. (50). 1911. D E

Barrington, Richard L., M. D., 3820 Utah Place, St. Louis, Mo. (60). K

Barroll, Mrs. Henry Edwards, M. D., 911 Elm St., Winnetka, Ill. (58). C K

Barron, George D., Box 596, Rye, N. Y. (57).

Barrow, Bernard, M. D., Barrow's Store, Va. (60). K

Barrows, Albert Lloyd, 1430 Arch St., Berkeley, Cal. (63). E

*Barrows, Walter Bradford, Professor of Zoology and Geology, Michigan Agricultural College, East Lansing, Mich. (40). 1897. E F

Barrows, Walter Loring, Department of Geology, Trinity College, Hartford, Conn. (63). E

*Barrows, Prof. William Morton, Ohio State University, Columbus, Ohio. (57). 1911. E

Barss, Howard Phillips, Corvallis, Oregon. (61). G

Barth, Carl G., M. E., 1937 North 33d St., Philadelphia, Pa. (60). D

Bartholomew, C. Edgar, 711 5th St., Ames, Iowa. (54). F

Bartholomew, Elbert T., 542 W. Johnson St., Madison, Wis. (63).

*Bartlett, Edwin Julius, M. D., Professor of Chemistry, Dartmouth College, Hanover, N. H. (28). 1883. C

Bartlett, Frank Sargent, C. E., care Gen. Electric Co., 30 Church St., New York, N. Y. (61). D

Bartlett, George Miller, 2609 No. Delaware St., Indianapolis, Ind. (52). D I

Bartlett, Harley Harris, Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (61). G

Bartlett, Dr. J. M., Maine Agric. Exp. Station, Orono, Me. (61). C

Bartlett, John P., 41 Park Row, New York, N. Y. (57).

Bartlett, Murray, President, University of the Philippines, Manila, P. I. (62). L

*Bartley, Elias Hudson, M. D., 65 So. Portland Ave., Brooklyn, N. Y. (33). 1894. C K

Bartley, William M., M. D., Sheyenne, N. Dak. (60). K

Bartol, G., Otis Steel Co., Cleveland, Ohio. (63).

Bartol, John W., 1 Chestnut St., Boston, Mass. (60).

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*Barton, George Hunt, Boston Society of Natural History, 234 Berkeley St., Boston, Mass. (47). 1900. E

Barton, Philip Price, E. E., General Manager, Niagara Falls Power Co., Niagara Falls, N. Y. (50). B D E H

*Barton, Samuel Goodwin, Ph. D., Swarthmore College, Swarthmore, Pa. (58). 1910. A

*Barton, Samuel Marx, Ph. D., University of the South, Sewanee, Tenn. (43). 1899. A D

*Bartow, Edward, Ph. D., Professor of Sanitary Chemistry, University of Illinois, Urbana, Ill. (47). 1906. C

*Bartsch, Paul, Ph.D., Smithsonian Institution, Washington, D. C. (52). 1906. F

Baruch, Edgar, 2058 Harvard Boulevard, Los Angeles, Cal. (56). C D

*Barus, Carl, Ph. D., LL. D., Wilson Hall, Brown University, Providence, R. I. (33). 1887. B

Barwell, John William, Waukegan, Ill. (47). I L

*BASCOM, FLORENCE, Ph. D., Professor of Geology, Bryn Mawr College, Bryn Mawr, Pa. (42). 1897. E

*Base, Daniel, Ph. D., 329 North Schroeder St., Baltimore, Md. (60). 1911. C

*Bashore, Harvey Brown, M. D., West Fairview, Pa. (46). 1911. E K

*Baskerville, Charles, Ph. D., Professor of Chemistry, College of the City of New York, New York, N. Y. (41). 1894. C E

*Bass, Col. Edgar Wales, U. S. A., 77 Park Ave., New York, N. Y. (58). 1911. A D E I L

Bass, Frederic, Professor of Municipal and Sanitary Engineering, University of Minnesota, Minneapolis, Minn. (62). D

Basset, Gardner C., Johns Hopkins University, Baltimore, Md. (60). F

Bassett, Carroll Phillips, Ph.D., Civil and Consulting Engineer, Summit, N. J. (51). B D I

*Bassett, William H., Chief Chemist, American Brass Co., Cheshire, Conn. (57). 1909. C

Bassler, Prof. Harvey, 1421 McCulloh St., Baltimore, Md. (61). E F

*Bassler, Ray Smith, Ph. D., U. S. National Museum, Washington, D. C. (60). 1911. E

*Bassoe, Peter, M. D., 2207 Colfax St., Evanston, Ill. (58). 1911. H K

*Batchelder, Charles Foster, 7 Kirkland St., Cambridge, Mass. (54). 1907.

Bateman, George Frederick, Cooper Union, New York, N. Y. (60). D

*Bates, Clinton Owen, Ph. D., Cedar Rapids, Iowa. (58). 1911. C

Bates, Henry H., Ph. D., The Revere, 1201 M St. N. W., Washington, D. C. (52). A B D

*Bates, Rev. John Mallery, Red Cloud, Nebr. (51). 1903. F G H L

Bates, Onward, C. E., 332 So. Michigan Ave., Chicago, Ill. (58). D E I

Bates, P. H., U. S. Geological Survey, 40th and Butler Sts., Pittsburg, Pa. (60). C E

*Battle, Herbert B., Ph. D., President, "The Battle Laboratory," 103 South Court St., Montgomery, Ala. (58). 1910. C

Bauer, George W., 660 Sacramento St., San Francisco, Cal. (60). C

*Bauer, Louis A., Ph. D., Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C. (40). 1892. A B E L

*Bauer, William Charles, Sc. D., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. (58). 1910. A B C D

Baugh, Margaret L., 27 West 67th St., New York, N. Y. (57).

*Baumgartner, William Jacob, Ph. D., Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (58). 1911. F

*Bausch, Edward, P. O. Drawer 1033, Rochester, N. Y. (26). 1883. **A B C F**

*Baxter, Gregory Paul, Ph. D., Assistant Professor of Chemistry, Harvard University, Cambridge, Mass. (54). 1906. **C**

*Bayley, William Shirley, Ph. D., Associate Professor of Geology, University of Illinois, Urbana, Ill. (53). 1905. **E**

Bayliss, Alfred, Macomb, Ill. (58).

Beach, Charles Coffing, M. D., 54 Woodland St., Hartford, Conn. (50). **F K**

Beadle, William H. H., Madison, S. D. (60).

Beal, George Safford, C. E., 1810 13th St., Altoona, Pa. (60). **D**

Beal, Walter Henry, Assistant, Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (52). **C**

*Beal, Wm. James, Sc. D., Ph. D., Amherst, Mass. (17). 1880. **G**

Beal, William Otis, 1048 Grove St., Jacksonville, Ill. (60). **A**

Beal, William R., 1 West 121st St., New York, N. Y. (57).

Beals, Edward Alden, care Weather Office, Portland, Oregon. (62).

Beaman, George Herbert, 2232 Massachusetts Ave. N. W., Washington, D. C. (52). **I**

Beaman, William M., U. S. Geological Survey, Washington, D. C. (62). **E**

*Bean, Robert Bennett, M. D., Associate Professor of Anatomy, Medical School, Tulane University, New Orleans, La. (58). 1911. **F H K**

*Beard, James T., E. M., Associate Editor, *Coal Age*, 505 Pearl St., New York, N. Y. (58). 1912. **B C D L**

*Beardsley, Arthur Eugene, Professor of Biology, Colorado State Teachers College, Greeley, Colo. (50). 1901. **F**

*Beates, Henry, Jr., M. D., 260 South 16th St., Philadelphia, Pa. (51). 1909. **K**

Beattie, Prof. Frederick S., 112 North High St., Bethlehem, Pa. (57). **C**

Beaulieu, Germain, Room 203, New York Life Building, Montreal, Canada. (58). **F**

Beazley, Arthur T., E. E., Oilfields, Cal. (60). **D**

Bebb, Edward C., U. S. Reclamation Service, Glendive, Montana. (52). **E**

Bebb, William, Dental Department, University of Southern California, Los Angeles, Cal. (60). **K**

Beck, Emil G., M. D., 2632 Lake View Ave., Chicago, Ill. (58). **K**

Beck, Matthias A., M. E., 294 Greenbush St., Milwaukee, Wis. (60). **D**

Beck, William H., 1417 K St., N. W., Washington, D. C. (62).

*Becker, Geo. Ferdinand, Ph. D., U. S. Geological Survey, Washington, D. C. (36). 1890. **E**

Becker, Irwin A., care Michael Reese Hospital, 29th and Groveland Ave., Chicago, Ill. (58). **C E G K**

Beckett, Bergie Barry, E. E., Room 523, Colman Building, Seattle, Wash. (60). **D**

Becknell, Guy Gaillard, Mt. Allison University, Sackville, N. B., Canada. (58). **B**

Beckwith, Angie M., U. S. Department of Agriculture, Washington, D. C. (62). G

Beckwith, George Sherman, 1113 Williamson Building, Cleveland, Ohio. (63).

*Beckwith, Theodore Day, Head of Department of Bacteriology, Oregon Agricultural College, Corvallis, Oregon. (57). 1911. F G K

*Bedell, Frederick, Ph. D., Professor of Applied Electricity, Cornell University, Ithaca, N. Y. (41). 1894. A B

*Bedford, M. Hume, Ph. D., Paris, Ky. (58). 1910. C

*Beebe, Charles William, Curator of Ornithology, New York Zoological Park, New York, N. Y. (53). 1905. F

*Beebe, Silas Palmer, M. D., Ph. D., Physiological Chemist to the Huntington Fund for Cancer Research, 216 Central Ave., Flushing, N. Y. (54). 1906. K

*Beede, Joshua William, Ph. D., Instructor in Geology, Indiana University, Bloomington, Ind. (50). 1906. E

Beekman, Gerard, 48 West 74th St., New York, N. Y. (49).

*Beer, Edwin, M. D., 116 West 58th St., New York, N. Y. (56). 1908. K

Beer, James Anderson, M. D., Health Office, City Hall, Columbus, Ohio. (58). C K

Beers, Everett Jacob, Principal, Oak Grove Seminary and Bailey Institute, Vassalboro, Me. (57). B C

Beers, William Herbert, Chemist and Bacteriologist, 1524 Henderson St., Columbia, S. C. (58). C F G H K

*Beeson, Jasper Luther, Ph. D., Georgia Normal and Industrial College, Milledgeville, Ga. (57). 1909. C

Begeman, Louis, Ph. D., Cedar Falls, Iowa. (62).

Bégin, L'abbé P. A., Professor of Physics and Chemistry, Seminaire Saint Charles Borromée, Sherbrook, Quebec, Canada. (58). B C

Behr, Edward, C. E., 838 Carroll St., Brooklyn, N. Y. (57). H L

Behr, Gustavus E., Jr., ... (58). C

*Behrend, Bernard Arthur, C. E., E. E., 200 Devonshire St., Boston, Mass. (50). 1903. A B D I L

Beidler, Francis, 4736 Drexel Boulevard, Chicago, Ill. (58).

Belcher, Prof. Burton, Principal, Gadsden County High School, Quincy, Fla. (63).

Belknap, Henry Wyckoff, 31 Warren St., Salem, Mass. (57).

*Bell, Albert T., Louisiana State University, Baton Rouge, La. (52). 1903. G

*Bell, Alexander Graham, M. D., Sc. D., Ph. D., LL. D., 1331 Connecticut Ave. N. W., Washington, D. C. (26). 1879. B H I

Bell, C. M., M. D., 320 Fifth Ave., New York, N. Y. (36). K

Bell, Charles J., President American Security and Trust Co., Washington, D. C. (63).

Bell, J. Finley, M. D., Englewood, New Jersey. (57). K

*Bell, James Carleton, Ph. D., 57 Halsey St., Brooklyn, N. Y. (58). 1910. F H L

*Bell, James Munsie, Ph. D., P. O. Box 396, Chapel Hill, N. C. (58). 1909. **B C**

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Bell, William B., Ph. D., Assistant Professor of Zoology and Physiology, Agricultural College, N. Dak. (56). **F K**

Beller, William Frank, Chief Liquidating Clerk, New York Custom House, 51 East 123d St., New York, N. Y. (56). **F H I**

Belling, John, Florida Agricultural Experiment Station, Gainesville, Fla. (58). **G**

*Belmont, August, 23 Nassau St., New York, N. Y. (50). 1906. **I**

BELMONT, HON. PERRY, 580 Fifth Ave., New York, N. Y. (57).

*Beman, Wooster Woodruff, LL. D., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (34). 1886. **A**

Bement, Alburto, E. M., 2114 Fisher Building, Chicago, Ill. (52). **B C D E**

*Béndrat, Rev. Thomas Albert, Chapel Hill, N. C. (52). 1911. **E F G**

Benecke, Adelbert O., E. E., care Industrial Instrument Co., Foxboro, Mass. (58). **D**

Benedict, Rev. C. K., Sewanee, Tenn. (60).

*Benedict, Francis Gano, Ph. D., Director, Nutrition Laboratory, Carnegie Institution, Boston, Mass. (55). 1908. **C K**

Benedict, Harris Miller, Assistant Professor of Biology, University of Cincinnati, Cincinnati, Ohio. (52). **F G**

*Benedict, Harry Yendell, Ph. D., Professor of Applied Mathematics, University of Texas, Austin, Tex. (58). 1911. **A D**

*Benedict, Ralph Curtis, 2702 Bainbridge Ave., Fordham, N. Y. (60). 1911. **G**

Benedict, William de L., E. M., 19 Cedar St., New York, N. Y. (57). **D**

Bengston, Rev. Carl J., Knoxville, Ill. (58). **H**

*BENJAMIN, MARCUS, Sc. D., Ph. D., LL. D., U. S. National Museum, Washington, D. C. (27). 1887. **C I**

Benner, Winthrop W., Box 540, Port Arthur, Ontario, Can. (60). **C**

Bennehoff, James D., Prof. of Geology and Biology, Alfred University, Alfred, N. Y. (61). **E F G K**

*Benneson, Miss Cora Agnes, 3 Phillips Place, Cambridge, Mass. (47). 1899. **H I**

*Bennett, Alfred Allen, Professor of Chemistry, Iowa State College, Ames, Iowa. (54). 1906. **C**

Bennett, Charles Wilkes, Coldwater, Mich. (50). **E F G**

Bennett, Mrs. George, ... (58). **F G**

Bennett, Henry C., Hotel Longacre, 157 West 47th St., New York, N.Y. (43).

Bennett, John N., Professor of Mathematics, Doane College, Crete, Nebr. (57). **A**

Bennett, Lee F., Professor of Zoology and Geology, Valparaiso University, Valparaiso, Ind. (58). **E F**

*Bennett, William Z., Ph. D., Director, Chemical Laboratory, University of Wooster, Wooster, Ohio. (48). 1903. C

Bennion, Milton, Professor of Philosophy, University of Utah, Salt Lake City, Utah. (60). L

*Bensley, Benjamin Arthur, Ph. D., Associate Professor of Zoology, University of Toronto, Toronto, Canada. (58). 1910. F K

*Bensley, Robert Russell, Professor of Anatomy, University of Chicago, Chicago, Ill. (60). 1911. K

Bentley, Gordon M., Instructor in Zoology and Entomology, University of Tennessee, Knoxville, Tenn. (54). F

*Bentley, Madison, Ph. D., Assistant Professor of Psychology, Cornell University, Ithaca, N. Y. (54). 1906. H K

*Bentley, William Burdelle, Ph. D., Professor of Chemistry, Ohio University, Athens, Ohio. (51). 1903. C

Bentley, Wilson A., Jericho, Vt. (48). B

Benton, Frank, P. O. Box 17, Washington, D. C. (54). F

*Benton, John Robert, Ph. D., Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. (51). 1906. B D

*Benzenberg, George Henry, C. E., 1310 Wells Bldg., Milwaukee, Wis. (58). 1911. D

Berg, Ernst Julius, M. E., Sc. D., Professor of Electrical Engineering, University of Illinois, Urbana, Ill. (63). D

*Berg, William Nathan, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (55). 1911. C K

*Bergen, Joseph Young, 47 Raymond St., North Cambridge, Mass. (57). 1909. G

Bergen, Van Brunt, C. E., Shore Road and 77th St., Brooklyn, N. Y. (54). I

Berger, Edward William, Ph. D., Entomologist, Florida Agricultural Experiment Station, Gainesville, Fla. (57). F

*Bergey, David Hendricks, M. D., Assistant Professor of Bacteriology, Laboratory of Hygiene, University of Pennsylvania, Philadelphia, Pa. (48). 1903. K

Berghausen, Dr. E. J., 3427 Evans Place, Clifton, Cincinnati, Ohio. (58). C

Bergin, Rev. Alfred, Ph. D., Lindsborg, Kans. (60). H

Bergland, Major Eric, P. O. Box 30, Baltimore, Md. (60).

Bergman, Herbert Floyd, Assistant Professor of Botany, Agricultural College, Fargo, N. D. (60). G

*Berkey, Charles Peter, Ph. D., Tutor in Geology, Columbia University, New York, N. Y. (50). 1905. E

Berlenbach, Philip H., M. D., 9 Stuyvesant Ave., Brooklyn, N. Y. (60). K

Berlin, Henry, M. D., 110 McCallie Ave., Chattanooga, Tenn. (58). K

Bernheimer, Charles L., 120 Franklin St., New York, N. Y. (49).

*Berolzheimer, Daniel D., 518 West 134th St., New York, N. Y. (55). 1911. C H

Berry, Charles Scott, Ph. D., Assistant Professor of Psychology, University of Missouri, Columbia, Mo. (63). **H**

Berry, Daniel, M. D., Carmi, Ill. (41). **B C E**

Berry, Edgar H., ... (50). **A B C D**

*Berry, Edward W., Johns Hopkins University, Baltimore, Md. (50). 1905. **E G**

Berry, James Bert, Pennsylvania State College, State College, Pa. (63). **G**

Berry, John Wilson, C. E., Pittston, Pa. (47).

Berry, S. Stillman, P. O. Box 1042, Stanford University, Cal. (61).

Berry, Prof. William Johnston, 1937 83d St., Brooklyn, N. Y. (62). **A**

*Bessey, Charles Edwin, Ph. D., LL.D., Dean, University of Nebraska, Lincoln, Nebr. (21). 1880. **G**

*Bessey, Ernst Athearn, Ph. D., Professor of Botany, Michigan Agric. College, East Lansing, Mich. (49). 1901. **G**

*Best, George Newton, M. D., Rosemont, N. J. (54). 1911. **G K**

*Bethune, Rev. Charles James Stewart, Professor of Entomology, Ontario Agricultural College, Guelph, Ontario, Canada. (18). 1875. **F**

Betten, Cornelius, Ph. D., Professor of Biology, Lake Forest College, Lake Forest, Ill. (56). **F**

*Betts, Anson Gardner, E. M., Troy, N. Y. (60). 1911. **C D**

Betts, George Herbert, Ph. D., Professor of Psychology and Education, Cornell College, Mt. Vernon, Iowa. (63). **H L**

Betts, Samuel R., Kuhn-Loeb Building, 52 William St., New York, N. Y. (57). **D L**

Beubler, George O. H., 2813 Hobart Boulevard, Los Angeles, Cal. (58). **C**

Beutenmüller, Wm., Curator, Department of Entomology, American Museum of Natural History, New York, N. Y. (57). **F G I L**

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Bevier, George, Jr., P. O. Box 1081, Stanford University, Cal. (55). **D**

*Bevier, Miss Isabel, Professor of Household Science, University of Illinois, Urbana, Ill. (46). 1909. **C**

*Beyer, George Eugene, Professor of Biology, Tulane University, New Orleans, La. (54). 1906. **F G**

Beyer, J. Walter, M. D., 401 Eastern Ave., Aspinwall, Pa. (60). **K**

*Beyer, Samuel Walker, Ph. D., Professor of Geology and Mining Engineering, Iowa State College, Ames, Iowa. (47). 1900. **D E**

*Bibbins, Arthur Barneveld, Curator and Instructor in Geology and Mineralogy, Goucher College, Baltimore, Md. (54). 1906. **E**

Bickford, Elizabeth E., Ph. D., ... (60). **F**

*Bickmore, Albert S., Ph. D., LL. D., American Museum of Natural History, New York, N. Y. (17). 1880. **H**

*Biddle, Henry Chalmers, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (60). 1910. **C**

Biddle, James G., 1211–13 Arch St., Philadelphia, Pa. (33). B

Bidwell, George L., 1225 S St. N. W., Washington, D. C. (60). C

Bierbaum, Christopher Henry, M. E., Consulting Engineer, 1142 Prudential Building, Buffalo, N. Y. (53). D

Bigelow, Edward F., Ph. D., Arcadia, Sound Beach, Conn. (63). F

*Bigelow, Prof. Frank H., Oficina Meteorologica, Buenos Aires, Argentine Republic, S. A. (36.) 1888. A B

Bigelow, Harold E., Ph. D., Mt. Allison University, Sackville, N. B., Canada. (63).

Bigelow, Harriet W., Ph. D., Professor of Astronomy, Smith College, Northampton, Mass. (57). 1909. A

*Bigelow, Henry Bryant, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (52). 1909. F

*Bigelow, Maurice Alpheus, Ph. D., Professor of Biology, Teachers College, Columbia University, New York, N. Y. (51). 1903. F L

*Bigelow, Robert Payne, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (51). 1903. F

*Bigelow, Samuel Lawrence, Ph. D., Assistant Professor of General Chemistry, University of Michigan, Ann Arbor, Mich. (51). 1903. C

*Bigelow, Willard Dell, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (53). 1906. C

Bigelow, William Sturgis, M. D., 56 Beacon St., Boston, Mass. (57). K

Biggs, Hermann M., M. D., LL. D., 113 West 57th St., New York, N. Y. (60). K

Bigney, Andrew J., Professor of Biology and Geology, Moores Hill College, Moores Hill, Ind. (50). E F

Bijur, Moses, Manhattan Square Hotel, 50 West 77th St., New York, N. Y. (57). C D E

Bikle, Charles Earle, 101 Clarendon St., Syracuse, N. Y. (60). A

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Billingsley, Paul, 446 Macon St., Brooklyn, N. Y. (61). F

Bilstein, Emma L., M. D., Plymouth Hall, Baltimore, Md. (60). K

*Bingham, Hiram, Ph. D., Box 901, Yale Station, New Haven, Conn. (58). 1911. I

*Bingham, Walter VanDyke, Ph. D., Asst. Professor of Psychology, Dartmouth College, Hanover, N. H. (60). 1911. H

Bioletti, Frederic T., University of California, Berkeley, Cal. (62). G

Bird, Charles S., Jr., East Walpole, Mass. (60).

Bird, Henry, Rye, N. Y. (55). F

*Bird, Robert Montgomery, Ph. D., Professor of Chemistry, University of Virginia, Charlottesville, Va. (57) 1909. C

Birdsall, Mrs. W. R., 316 So. Tejon St., Colorado Springs, Colo. (57).

*Birge, Edward Asahel, Sc. D., Ph. D., LL. D., Dean, College of Letters and Science, University of Wisconsin, Madison, Wis. (53). 1905. F

*Birkhoff, George David, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (61). 1911. A

Birnie, Clotworthy, M. D., Taneytown, Md. (60). K

BIRNIE, ROGERS, Colonel, Ordnance Department, U. S. A., Governor's Island, New York, N. Y. (62). D

Bishop, Frederic Lendall, Ph. D., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. (62). B

*Bishop, Howard Berkey, 1372 Union St., Brooklyn, N. Y. (56). 1908. C

Bishop, Mrs. Josephine Hall, 2309 Washington St., San Francisco, Cal. (51). H

*Bishop, Louis Bennett, M. D., 356 Orange St., New Haven, Conn. (50). 1906. I K

*Bishop, Louis Faugeres, M. D., 54 West 55th St., New York, N. Y. (60). 1911. K

Bishop, Rev. Samuel H., 501 West 121st St., New York, N. Y. (57). H I

Bishopp, Fred Corry, Box 208, Dallas, Texas. (54). F

*Bissell, George Welton, Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. (53). 1905. D

*Bissing, William F., 2 Rector St., New York, N. Y. (55). 1909. B D H I

Bitner, Henry F., Ph. D., Center Hall, Pa. (52). B C G

*Bitting, Katherine Golden, La Fayette, Ind. (42). 1897. G

*BIXBY, GEN. W. H., Corps of Engineers, U. S. A., 735 Southern Building, Washington, D. C. (34). 1892. D

Bizzell, William Bennett, President, College of Industrial Arts, Denton, Texas. (62).

Black, Alexander, Fort Defiance, Ariz. (60). H

Black, Carl E., M. D., Jacksonville, Ill. (60). K

Black, H. Crawford, Fidelity Building, Baltimore, Md. (60).

*Black, Newton Henry, Roxbury Latin School, Boston, Mass. (50). 1911. B C

Black, Otis Fisher, 1613 Riggs Place, Washington, D. C. (60). C

Black, Robert A., M. D., Virginia Hot Springs, Va. (60). K

Black, Lieut. Roger D., 503 State St., Albany, N. Y. (60). D

Blackiston, A. H., 628–630 Phelan Building, San Francisco, Cal. (60).

BLACKMORE, HENRY SPENCER, 206 South 9th Ave., Mount Vernon, N. Y. (49). C

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*Blackwelder, Eliot, Assistant Professor of Geology, University of Wisconsin, Madison, Wis. (55). 1908. E F

Blackwood, Alexander L., M. D., 22 East Washington St., Chicago, Ill. (58). K

*Blain, Alexander Willis, M. D., 1105 Jefferson Ave. East, Detroit, Mich. (52). 1906. F K

Blaine, Anita McCormick, 101 East Erie St., Chicago, Ill. (58).

Blair, A. W., care N. J. Agricultural Experiment Station, New Brunswick, N. J. (58). C

*Blair, Andrew Alexander, 406 Locust St., Philadelphia, Pa. (44). 1896. C
Blair, Joseph Cullen, Professor of Pomology, University of Illinois, Urbana, Ill. (63). G
Blair, R. Eugene, U. S. Experiment Farm, San Antonio, Texas. (63). G
Blaisdell, Frank Ellsworth, M. D., 4541 California St., San Francisco, Cal. (60). F K
Blaise, T. T., Mason City, Iowa. (58).
*Blake, Clarence John, M. D., 226 Marlborough St., Boston, Mass. (24) 1877. B F K
*Blake, Francis, Auburndale, Mass. (23). 1874. A B D
*Blake, Frederic C., Ph. D., Assistant Professor of Physics, Ohio State University, Columbus, Ohio. (60). 1909. B
*Blake, Joseph Augustus, M. D., 603 Madison Ave., New York, N. Y. (60). 1911. K
Blake, Maurice Adin, N. J. Agricultural Experiment Station, New Brunswick, N. J. (63). G
Blakeman, Mrs. Birdseye, 9 East 44th St., New York, N. Y. (49).
*Blaker, Ernest, Ph. D., Assistant Professor of Physics, Cornell University, Ithaca, N. Y. (51). 1907. B
*Blakeslee, Albert Francis, Ph. D., Professor of Botany, Connecticut Agricultural College, Storrs, Conn. (52). 1909. G
Blakiston, Kenneth M., 1012 Walnut St., Philadelphia, Pa. (54).
*Blanchard, Arthur A., Ph. D., Asst. Professor of Inorganic Chemistry, Massachusetts Institute of Technology, Boston, Mass. (58). 1910. C
*Blanchard, Arthur Horace, C. E., Professor of Highway Engineering, Columbia University, New York, N. Y. (52). 1905. B D E
*Blanchard, William Martin, Ph. D., Greencastle, Ind. (58). 1911. C
Bland, Curtis, M. D., Greensburg, Ind. (60). K
Bland, John Carlisle, C. E., Room 1115, Union Station, Pittsburg, Pa. (51). D
*Blankinship, Joseph William, Ph. D., 2329 Carlton St., Berkeley, Cal. (51). 1909. G
*Blasdale, Walter Charles, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (50). 1908. C
*Bleile, Albert Martin, M. D., Ohio State University, Columbus, Ohio. (37). 1896. F
*Bleininger, Prof. Albert Victor, 910 W. Nevada St., Urbana, Ill. (58). 1911. C D
Bliem, Daniel William, C. E., Manager, American Bridge Co., 1614 Pennsylvania Building, Philadelphia, Pa. (60). D
Bliem, Milton J., M. D., 235 West Mistletoe Ave., San Antonio, Tex. (60). K
BLISH, W. G., Niles, Michigan. (33). B D
*Bliss, Rev. Charles B., Ph. D., Hampden, Mass. (49). 1906. H I
Bliss, Edwin Packard, C. E., 120 Milk St., Boston, Mass. (60). D
*BLISS, GILBERT AMES, Ph. D., Associate Professor of Mathematics, University of Chicago, Chicago, Ill. (55). 1907. A

Bliss, Mary Campbell, 31 Stone Hall, Wellesley College, Wellesley, Mass. (62). G

BLISS, MRS. WILLIAM H., 6 East 65th St., New York, N. Y. (57).

*Blodgett, Frederick Harvey, Ph. D., Texas Agricultural Experiment Station, College Station, Texas. (52). 1905. G L

Blood, George Deroy, E. M., Silver King Mine, Park City, Utah. (60). D

*Bloodgood, Joseph Colt, M. D., 904 No. Charles St., Baltimore, Md. (55). 1909. K

BLOUNT, HENRY FITCH, "The Oaks," Washington, D. C. (32). B I

*Blum, William, Ph. D., Bureau of Standards, Washington, D. C. (55). 1911. C

Blumenthal, Sidney, 305 West 90th St., New York, N. Y. (57).

*Blumer, George, M. D., Dean, Yale Medical School, New Haven, Conn. (60). 1911. K

*Blunt, Katharine, Ph. D., Vassar College, Poughkeepsie, N. Y. (58). 1910. C

Blunt, Stanhope English, Colonel, Ordnance Department, U. S. A., Commanding Springfield Armory, Springfield, Mass. (55). D

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*Bodine, Donaldson, Sc. D., Professor of Geology and Zoology, Wabash College, Crawfordsville, Ind. (45). 1899. E F

Boerner, Emil G., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). G

Boerner, Wunibald R., Ravinia, Ill. (54). B D

*Bogert, Marston Taylor, LL. D., Professor of Organic Chemistry, Columbia University, New York, N. Y. (47). 1900. C

*Boggs, Gilbert H., Ph. D., Georgia School of Technology, Atlanta, Ga. (58). 1910. C

Boggs, Lucinda Pearl, Ph. D., 811 West Illinois St., Urbana, Ill. (57).

Bogue, Edward Augustus, M. D., 63 West 48th St., New York, N. Y. (57). K

Bohleng, Lee Hayes, Chentu High School, Chentu, Szchuen, China. (58). B C D

Boley, Ernst, Assistant General Superintendent, American Steel and Wire Co., Cleveland, Ohio. (63).

Bolles, J. H., E. M., 403 Singer Building, New York, N. Y. (58). D

Bolles, Newton Alden, M. D., 18 Ferguson Building, 711 17th St., Denver, Colo. (50). C D I

*Bolley, Henry Luke, Professor of Botany and Zoology, Agricultural College, North Dak. (39). 1892. F G

Bolling, George E., 17 Gifford St., Brockton, Mass. (58). C K

*Bolser, C. E., Hanover, N. H. (58). 1910. C

Bolster, Augustus S., M. D., 323 Pleasant St., Worcester, Mass. (50). K

Bolton, Frederick Elmer, Ph. D., Professor of Education, and Director of School of Education, State University of Iowa, Iowa City, Iowa. (62). L

*Bolton, Thaddeus Lincoln, Ph. D., Tempe, Arizona. (50). 1901. H I

Bond, Francis M., Madison, Wis. (60). D

*Bond, George Meade, M. E., 141 Washington St., Hartford, Conn. (33). 1885. D

Bond, Josiah, Toluachi Mine, Patagonia, Ariz. (58). C D

*Bondurant, Eugene Du Bose, M. D., Professor of Pathology and Bacteriology, University of Alabama, Mobile, Ala. (54). 1909. K

*Bonnet, Frederic, Jr., Ph. D., 22 Dayton St., Worcester, Mass. (53). 1906. C

Bonnett, Charles P., C. E., 241 West 101st St., New York, N. Y. (60). D

Bonns, Walter W., Maine Agricultural Experiment Station, Orono, Me. (62). G

*Book, William Frederick, Ph. D., University of Montana, Missoula, Mont. (60). 1911. H

*Bookman, Samuel, Ph. D., 9 East 62d St., New York, N. Y. (47). 1900. C K

Boon, John Daniel, Professor of Physics, Chemistry and Geology, Polytechnic College, Fort Worth, Tex. (50). B C E

Booraem, John Van Vorst, M. E., 204 Lincoln Place, Brooklyn, N. Y. (36). B C

Boot, David Herbert, Superintendent of Schools, Canton, So. Dak. (63). E G

*Booth, Edward, Instructor in Chemistry, University of California, Berkeley, Cal. (50). 1909. C

*Booth, Miss Mary A., 60 Dartmouth St., Springfield, Mass. (34). 1894. F G I

Boring, Alice M., Instructor in Zoology, University of Maine, Orono, Me. (61). F

Boring, Edwin Garrigues, Government Hospital for the Insane, Washington, D. C. (63). H

Born, Rudolph C., Forest Glen Road, Longmeadow, Mass. (60). C

Boskowitz, George W., M. D., 140 West 71st St., New York, N. Y. (57). K

Boss, Andrew, Chief of Division of Agriculture, University Farm, St. Paul, Minn. (62). G

Boswell, Foster P., Ph. D., 56 Park Place, Geneva, N. Y. (62). H

Boswell, Maitland C., Chemical and Mining Building, University of Toronto, Toronto, Canada. (60). C

Bothne, Gisle, Professor, and Head of Department, of Scandinavian Languages and Literature, University of Minneapolis, Minneapolis, Minn. (61).

Boucek, Anthony J., M. D., 624 Chestnut St., N. S., Pittsburgh, Pa. (51). K

Boulton, Eleanore F., M. D., P. O. Box 585, Chicago, Ill. (60). K

Bourne, B. F., 805 Hickox Building, Cleveland, Ohio. (63).

*Bouton, Charles Leonard, Ph. D., Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. (50). 1901. A

*Boutwell, John Mason, 1323 De la Vina St., Santa Barbara, Cal. (46). 1905. E

*Bovaird, David, Jr., M. D., 137 East 60th St., New York, N. Y. (57). 1908. K

Bovard, John Freeman, Professor of Biology, University of Oregon, Eugene, Oregon. (58). F

Bovée, J. Wesley, M. D., The Rochambeau, Washington, D. C. (60). K

*Bowditch, Charles Pickering, 111 Devonshire St., Boston, Mass. (43). 1897. H

Bowditch, Harold, 636 Beacon St., Boston, Mass. (60).

Bowen, Norman L., Massachusetts Institute of Technology, Boston, Mass. (63). E

Bower, William Clinton, M. D., 715 Mills Building, Topeka, Kansas. (55). K

Bowie, Alexander, E. M., Bowie, Colo. (58). D

*Bowie, William, U. S. Coast and Geodetic Survey, Washington, D. C. (57). 1907. A D E

Bowker, Charles H., M. D., The De Soto, Washington, D. C. (60). K

Bowker, Richard Rogers, 298 Broadway, New York, N. Y. (43). B D I L

Bowker, Willard Lewis, C. E., Walpole, Mass. (60). D

Bowker, William H., 43 Chatham St., Boston, Mass. (60).

*Bowles, Oliver, 321 19th Ave., S. E., Minneapolis, Minn. (61). 1911. E

Bowling, Alonzo Jesse, 130 Dartmouth St., Boston, Mass. (62).

Bowman, John Brady, Professor of Education, Mt. Union College, Alliance, Ohio. (62). L

*Bownocker, John Adams, Sc. D., Professor of Inorganic Geology, Ohio State University, Columbus, Ohio. (48). 1905. E

Box, Cora May, Department of Zoology, University of Cincinnati, Cincinnati, Ohio. (63). F

Boyce, David C., M. D., 846 Western Ave., Northside, Pittsburg, Pa. (60). K

Boyce, Ernest Walter, E. E., 218 93d St., Brooklyn, N. Y. (60). D

*Boyce, James, Chief Chemist, American Cotton Oil Co., 225 West 19th St., Chicago, Ill. (58). 1910. C

Boyd, E. T., M. D., 220 Metropolitan Building, Denver, Colo. (60). K

*Boyd, Prof. James Ellsworth, Ohio State University, Columbus, Ohio. (46). 1899. B D

Boyd, Montague L., M. D., 423 Candler Building, Atlanta, Ga. (62). K

Boyer, Charles S., 3223 Clifton St., Philadelphia, Pa. (60). A

Boylston, Arthur Clarence, Mallinckrodt Chemical Works, St. Louis, Mo. (58). C D

Boynton, Dr. Charles E., 183 Rush St., Chicago, Ill. (60). A K

*Boynton, William Pingry, Ph. D., Professor of Physics, University of Oregon, 135 East 11th St., Eugene, Ore. (60). 1910. B

Brabec, Frank J., M. D., Perham, Minn. (60). K

Brace, Edith M., Eastern District High School, Brooklyn, N. Y. (54). F G

*Brace, Mrs. R. N., 223 East 17th St., New York, N. Y. (49). 1906. H
*Bracken, Henry Martyn, M. D., 1010 Fourth St. S. E., Minneapolis, Minn. (60). 1911. K
BRACKENRIDGE, GEORGE W., San Antonio, Tex. (41).
*Brackett, Byron Briggs, Ph. D., So. Dak. State College, Brookings, S. D. (46). 1911. B D
*Brackett, Cyrus Fogg, M. D., Professor of Physics, Princeton University, Princeton, N. J. (19). 1875. B
*Brackett, Frank Parkhurst, Professor of Mathematics, Pomona College, Claremont, Cal. (50). 1906. A
Brackett, Mary M., 604 West 115th St., New York, N. Y. (54). G
*Brackett, Richard Newman, Ph. D., Clemson Agricultural College, Clemson College, S. C. (37). 1891. C E
Bradbury, Wymond H., 459 C St. N. W., Washington, D. C. (60). C
Bradford, Moses B. L., 60 Main St., Concord, Mass. (60).
*Bradford, Royal B., Rear Admiral, U. S. Navy, 1522 P St. N. W., Washington, D. C. (31). 1891. B C D
BRADLEY, ARTHUR C., Newport, N. H. (43).
*Bradley, Charles Edward, care Rubber Regenerating Co., Mishawaka, Ind. (54). 1911. C
*Bradley, Charles S., 41 Park Row, New York, N. Y. (40). 1911. B C D
*Bradley, Harold Cornelius, Ph. D., 1811 Adams Ave., Madison, Wis. (60). 1911. C F
*Bradley, James Chester, Ph. D., Cornell University, Ithaca, N. Y. (54). 1910. F
BRADLEY, M. J., 373 Fulton St., Brooklyn, N. Y. (43).
Bradley, Theodore J., Massachusetts College of Pharmacy, Boston, Mass. (60).
*Bradley, Walter M., Ph. D., 520 Whitney Ave., New Haven, Conn. (60). 1911.
*Bradley, Walter Parke, Ph. D., Professor of Chemistry, Wesleyan University, Middletown, Conn. (50). 1906. B C
Bradt, Harlan Hurlbut, 407 Mesaba Ave., Duluth, Minn. (63). E
*Brady, William, Superintendent, Illinois Steel Works of Chicago, 7642 Marquette Ave., Chicago, Ill. (58). 1909. C
Braga, Eduardo, E. E., Journal do Commercio, 3° Andar (Sala 7), Rio de Janeiro, Brazil, S. A. (62). D
Bragg, E. B., 1838 Chicago Ave., Evanston, Ill. (60). C
Brainerd, Erastus, Richmond Beach, Wash. (52). H
Brainerd, Wolter Kirke, Professor of Dairy Husbandry, Virginia Agricultural Experiment Station, Blacksburg, Va. (62). G
Braman, Winfred Waite, 200 West Beaver Ave., State College, Pennsylvania. (58). C
Bramwell, George W., 335 Broadway, New York, N. Y. (43). D
Brand, Charles J., Congress Square Hotel, Portland, Me. (63). G
*Branner, John Casper, Ph. D., LL. D., Professor of Geology, Leland Stanford Junior University, Stanford University, Cal. (34). 1886. E F

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*Branson, Edwin Boyer, Ph. D., 308 Hicks Ave., Columbia, Mo. (57). 1911. E

Brasch, Frederick E., P. O. Box 1063, Stanford University, Cal. (62). A

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Braucher, Ralph Waldo, 115 Stewart Ave., Ithaca, N. Y. (60). F

Braun, Annette Frances, Ph. D., 2702 May St., Cincinnati, Ohio. (60). F

Braunnagel, Jules L. A., M. D., P. O. Box 925, San Antonio, Tex. (50). H K

*Bray, William Crowell, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (60). 1910. C

*Bray, William L., Ph. D., Syracuse University, Syracuse, N. Y. (49). 1901. G

Brayton, Sarah H., M. D., 1637 Chicago Ave., Evanston, Ill. (33). K

Breckenridge, John E., American Agricultural Chemical Co., Carteret, N. J. (60). C

Bredin, George S., R. F. D. No. 5, West Chester, Pa. (58).

Breed, Frederick Stephen, Ph. D., Asst. Professor of Education, University of Michigan, Ann Arbor, Mich. (63). L

*Breed, Robert Stanley, Ph. D., Professor of Biology and Geology, Allegheny College, Meadville, Pa. (51). 1909. E F

Breen, Howard, C. E., 275 South Euclid St., Pasadena, Cal. (60). D

*Breese, Burtis Burr, Ph. D., Professor of Psychology, University of Cincinnati, Cincinnati, Ohio. (54). 1910. H L

*Breidenbaugh, Prof. Edward S., Pennsylvania College, Gettysburg, Pa. (57). 1909. C

Breitwieser, Joseph Valentine, Colorado College, Colorado Springs, Colo. (61).

*Bremer, John Lewis, M. D., Harvard Medical School, Boston, Mass. (58). 1911. K

*Breneman, Abram Adam, 97 Water St., New York, N. Y. (58). 1911. C

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Brennan, Rev. Martin S., D. D., Sc. D., 6304 Minnesota Ave., St. Louis, Mo. (58). A

Brereton, Thomas John, C. E., 124 5th Ave., Chambersburg, Pa. (58). D

*Bretnall, George Herbert, Head, Department of Biology, State Normal School, La Crosse, Wis. (58). 1911. F G

Brett, George Monroe, Hartley Hall, 115th St. and Amsterdam Ave., New York, N. Y. (54). A D

*Bretz, J. Harlen, Walker Museum, University of Chicago, Chicago, Ill. (57). 1911. E

*Brewer, Charles Edward, Ph. D., Professor of Chemistry, Wake Forest College, Wake Forest, N. C. (50). 1903. C

Brewer, Edward M., 40 Churchill's Lane, Milton, Mass. (60).
Brewster, Carl Milton, Mount Union College, Alliance, Ohio. (62). C L
Brewster, Edwin Tenney, Andover, Mass. (51). F G
Brewster, Frank, Ames Building, Boston, Mass. (61). H
Brewster, Frank H., M. E., 180 Woodbridge Ave., Buffalo, N. Y. (51). D
BRICE, JUDGE ALBERT G., 901 Hennen Building, New Orleans, La. (32). H
Brichett, Dr. J. G., Cardwell, Mo. (58).
*Bridge, Norman, M. D., 10 Chester Place, Los Angeles, Cal. (51). 1906. H I K L
Briganti, P., M. D., 205 East 17th St., New York, N. Y. (58). K
Briggs, Charles H., 12 Old Colony Building, Minneapolis, Minn. (60). C
Briggs, Edward Cornelius, M. D., 129 Marlborough St., Boston, Mass. (50). F K
*Briggs, Lyman James, Ph. D., 3208 Newark St., Washington, D. C. (48). 1901. B
Briggs, Wallace Alvin, M. D., Box 667, Sacramento, Cal. (51). K
*Brigham, Albert Perry, Professor of Geology, Colgate University, Hamilton, N. Y. (41). 1900. E
*Brigham, William Tufts, Sc. D., Director, B. P. Bishop Museum of Polynesian Ethnology and Natural History, Honolulu, Hawaii. (54). 1909. H
Brigstocke, Robert W., Superintendent, Drummond Mines, Giroux Lake Post-office, via Cobalt, Ontario, Canada. (60). D
*Brill, George Mackenzie, M. E., Consulting Engineer, 1134 Marquette Building, Chicago, Ill. (51). 1906. D
*Brill, Nathan Edwin, M. D., 48 West 76th St., New York, N. Y. (54). 1911. H K
Brinker, Harry L., 255 Arlington St., Youngstown, Ohio. (60). C
Bristol, John I. D., 45 West 74th St., New York, N. Y. (49).
*Bristol, Prof. William H., President, The Bristol Company, Waterbury, Conn. (36). 1894. A B D
Britt, Richard H., E. M., Box 55, Rockland, Me. (58). D
*Britton, Nathaniel Lord, Sc. D., Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (29). 1882. E G
BRITTON, WILEY, 6 No. Mill St., Kansas City, Kansas. (40). F
*Britton, Wilton Everett, Ph. D., State Entomologist, Agricultural Experiment Station, New Haven, Conn. (54). 1906. F
Broadhead, Miss Annie M., Bellingham, Wash. (61).
*Broadhurst, Miss Jean, Department of Biology, Teachers College, New York, N. Y. (54). 1911. F G
Broadrup, George L., M. D., 203 Virginia Ave., Cumberland, Md. (60). K
Brock, Henry M., S. J., Professor of Physics, Ore Place, Hastings, England. (57). B E
Brock, Luther S., M. D., Morgantown, W. Va. (61). K
*Brock, Reginald Walter, Ph. D., Geological Survey of Canada, Ottawa, Ontario, Canada. (54). 1907. E

Brode, Howard S., Ph. D., Professor of Biology, Whitman College, Walla Walla, Wash. (62). F

*Brödel, Prof. Max, Johns Hopkins Hospital, Baltimore, Md. (60). 1911. K

Brodrick, Carlton Thayer, Kyshtim Mining Works, Perm. Govt., Russia, (via Petersburg). (57). D E

Broman, Isidore J., State Mine Inspector, Capitol Station, Austin, Texas. (62). D E

Bromberg, Frederick G., Mobile, Ala. (60).

Bronson, Edward Bennett, M. D., 10 West 49th St., New York, N. Y. (49). K

*Bronson, Howard Logan, Ph. D., Professor of Physics, Dalhousie University, Halifax, Nova Scotia. (58). 1910. B

*Brooke, William Ellsworth, Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (58). 1910. A

Brookover, Charles, Ph. D., Buchtel College, Akron, Ohio. (55). F

*Brooks, Alfred Hulse, U. S. Geological Survey, Washington, D. C. (52). 1905. E

Brooks, Charles, Ph. D., Durham, N. H. (53). G

Brooks, Clyde, Ph. D., Asst. Professor of Physiology and Pharmacology, University of Pittsburgh, Pittsburgh, Pa. (63).

Brooks, Fred Ernest, French Creek, W. Va. (58). F

*Brooks, Harlow, M. D., 44 West 9th St., New York, N. Y. (62). 1911. K

Brooks, Ira Sanford, Deere Farm, Brandywine, Md. (63).

Brooks, J. Ansel, Assistant Professor of Mechanical Drawing, Brown University, Providence, R. I. (54). A B D

Brooks, Miles Elijah, Princeton, B. C., Canada. (61).

Brooks, Oliver K., 1940 East 89th St., Cleveland, Ohio. (63).

Brooks, Orion, E. E., Superintendent, Heald's Engineering School, 425 McAllister St., San Francisco, Cal. (60). D

Brooks, Paul P. B., Science Teacher, Carlinville, Ill. (58). A B C

Brooks, Peter C., 2 Deerfield St., Boston, Mass. (60). G

Brooks, Wm. Penn, Ph. D., Amherst, Mass. (38). C F

*Brooks, William Robert, Sc. D., Director, Smith Observatory, and Professor of Astronomy, Hobart College, Geneva, N. Y. (35). 1886. A B D

Broomall, Henry L., Media, Pa. (58). H

Broughton, Henry Primm, E. E., 144 Edgewood Ave., Atlanta, Ga. (60). D

Brown, Hon. Addison, 45 West 89th St., New York, N. Y. (57). G

Brown, Alexander G., Jr., M. D., 1135 West Franklin St., Richmond, Va. (60). K

*Brown, Amos Peaslee, Ph. D., Professor of Geology and Mineralogy, University of Pennsylvania, Philadelphia, Pa. (50). 1906. E

*Brown, Calvin Smith, Sc. D., Ph. D., University, Miss. (54). 1911. E F G

*Brown, Charles W., 19 Diman Place, Providence, R. I. (54). 1909. E

Brown, Cony T., E. M., Socorro, New Mexico. (60). D

Brown, David Walter, Ph. D., 5 Beekman St., New York, N. Y. (55). D

*Brown, Edgar, Botanist in Charge of Seed Laboratory, U. S. Department of Agriculture, Washington, D. C. (52). 1911. G

*Brown, Edgar D., M. D., University of Minnesota, Minneapolis, Minn. (60). 1911. K

Brown, Elias G., M. D., Founder and Director, The Mountain School, Allaben, N. Y. (56). L

*Brown, Hon. Elmer Ellsworth, Chancellor, New York University, New York, N. Y. (57). 1907. I L

Brown, Elmer M., M. D., Warburton Block, Tacoma, Wash. (60). K

*Brown, Ernest William, Sc. D., Yale University, New Haven, Conn. (53). 1906. A B

*Brown, Fay Cluff, Ph. D., 220 Reynolds St., Iowa City, Iowa. (55). 1911. B

Brown, Frederick M., 54 Wall St., New York, N. Y. (58).

Brown, George A., 1111 North Prairie St., Bloomington, Ill. (58). L

*Brown, George Lincoln, Ph. D., Professor of Mathematics, South Dakota State College, Brookings, S. Dak. (55). 1907. A

Brown, Gilbert L., Professor of Education and Psychology, Northern State Normal School, Marquette, Mich. (63). L

Brown, Glenn Vinton, 4038 Walnut St., Philadelphia, Pa. (51). B C E

Brown, Harold Chapman, Columbia University, New York, N. Y. (60). H

*Brown, Harry Bates, Mississippi A. and M. College, Agricultural College, Miss. (60). 1911. G

Brown, Henry B., President, Valparaiso University, Valparaiso, Ind. (58). I L

Brown, James, Professor of Physics and Chemistry, Butler College, Indianapolis, Ind. (61). B C

Brown, Prof. Joseph Grant, 1013 Ramona St., Palo Alto, Cal. (62). B

*Brown, Joseph Stanford, 501 West 171st St., New York, N. Y. (50). 1906. D

Brown, Julius Arthur, Professor of Physics, Syrian Protestant College, Beirut, Syria. (60). B

*Brown, Lawrason, M. D., Trudeau, Saranac Lake, N. Y. (60). 1911. K

*Brown, Prof. Linwood Arnold, care Kentucky Experiment Station, Lexington, Ky. (60). 1911. C

*Brown, Lucius Polk, Food and Drug Commissioner for Tennessee, 312 6th Ave., North, Nashville, Tenn. (54). 1911. C E

Brown, Nellie A., U. S. Department of Agriculture, Washington, D. C. (60). G

Brown, Orville Harry, M. D., Ph. D., Missouri State Sanatorium for Incipient Tuberculosis, Mt. Vernon, Mo. (58). K

*Brown, Robert Marshall, Instructor in Geography, State Normal School, Worcester, Mass. (48). 1911. E

*Brown, Prof. Samuel Boardman, West Virginia University, Morgantown, W. Va. (40). 1911. E

*Brown, Prof. Stewardson, 20 East Penn St., Germantown, Pa. (50). 1906. G I

Brown, Thomas C., Ph. D., State College, Pa. (57). E

Brown, Thomas R., 710 Park Ave., Baltimore, Md. (61).

Brown, W. Jesse, Richard City, Tenn. (58). B C D E

Brown, W. McCulloh, Bayard, W. Va. (60).

Brown, Wade Hampton, M. D., Professor of Histology and Pathology, University of North Carolina, Chapel Hill, N. C. (63). K

*Brown, Warner, Ph. D., Instructor in Psychology, University of California, Berkeley, Cal. (60). 1911. H

Brown, William Adams, 114 East 30th St., New York, N. Y. (57).

*Brown, William George, Ph. D., Professor of Chemistry, University of Missouri, Columbia, Mo. (58). 1909. C

Brown, William Henry, Bureau of Science, Manila, P. I. (60). G

Browne, Arthur Lee, 213 Courtland St., Baltimore, Md. (56). C

Browne, Arthur S., 902 F St., N. W., Washington, D. C. (62).

*Browne, Arthur Wesley, Ph. D., Professor of Chemistry, Cornell University, Ithaca, N. Y. (57). 1908. C

*Browne, Charles Albert, Ph. D., 80 South St., New York, N. Y. (52). 1909. C

Browne, Ethel Nicholson, 415 West 118th St., New York, N. Y. (60). F

Browne, William Robert, C. E., Bethany Beach, Delaware. (54). D

Brownell, Silas B., 71 Wall St., New York, N. Y. (36).

Browning, Charles Clifton, M. D., 1227 Diamond Ave., S. Pasadena, Cal. (51). K L

BROWNING, J. HALL, 199 Chambers St., New York, N. Y. (57).

*Browning, Philip Embury, Ph. D., Kent Chemical Laboratory, Yale University, New Haven, Conn. (46). 1903. C

*Browning, William, M. D., Professor of Diseases of the Mind and Nervous System, Long Island College Hospital, Brooklyn, N. Y. (53). 1906. H K

Bruce, Robert E., Assistant Professor of Mathematics, Boston University, Boston, Mass. (60). A

Bruckner, Arthur, Hastings-upon-Hudson, N. Y. (55). B D L

Bruegel, A. Theodore, M. E., 829 South St. Bernard St., Philadelphia, Pa. (60). D

*Brues, Charles Thomas, Instructor in Economic Entomology, Bussey Institution, Jamaica Plain, Mass. (54). 1906. F

Brugger, Harvey, 218 No. Wood St., Fremont, Ohio. (60).

Bruggerhof, F. W., 33 Barclay St., New York, N. Y. (49).

*Brumback, Arthur Marion, Professor of Chemistry, Denison University, Granville, Ohio. (60). 1910. C

Brumbaugh, Gaius Marcus, M. D., 905 Massachusetts Ave., Washington, D. C. (60). K

Brundage, Albert Harrison, M. D., Milwaukee Medical College, 2404 State St., Milwaukee, Wis. (43). F G H K

*Bruner, Frank G., Ph. D., Associate Director, Department of Child Study and Educational Research, Public Schools, 818 Tribune Building, Chicago, Ill. (55). 1911. H K

*Bruner, Henry Lane, Ph. D., Professor of Zoology, Butler College, Indianapolis, Ind. (50). 1906. F

*Bruner, Lawrence, Professor of Entomology, University of Nebraska, Lincoln, Nebr. (50). 1901. F

*BRUNTON, DAVID WILLIAM, E. M., 730 Symes Building, Denver, Colo. (50). 1911. D E

*Brush, Charles Francis, Ph. D., LL. D., The Arcade, Cleveland, Ohio. (35). 1886. B

Bryan, Enoch Albert, LL. D., President, Washington State College, Pullman, Wash. (54). I

*Bryan, William Alanson, President, Pacific Scientific Institution, Honolulu, Hawaii. (55). 1908. F

*Bryan, William Lowe, Ph. D., Indiana University, Bloomington, Ind. (49). 1900. H

Bryant, Austin T., M. D., McKinney, Texas. (60). K

Bryant, D. C., M. D., 3006 No. 16th St., Omaha, Nebr. (62). K

Bryant, Dixie Lee, Ph. D., 1900 Washington Boulevard, Chicago, Ill. (42). E

Bryant, Edward Sohier, 141 Milk St., Boston, Mass. (56). E

*Bryant, Ernest Calvin, Professor of Physics and Mathematics, Middlebury College, Middlebury, Vermont. (60). 1910. B

Bryant, Harold C., East Hall, University of California, Berkeley, Cal. (63). F

*BRYANT, HENRY GRIER, 2013 Walnut St., Philadelphia, Pa. (51). 1905. E

*BRYANT, OWEN, Cohasset, Mass. (54). 1906. F K

Bryce, Rev. George, D. D., LL. D., President, Royal Society of Canada, 189 Colony St., Winnipeg, Manitoba, Canada. (57).

Bubb, Henry, Ullenwood, near Cheltenham, England. (60).

Buchanan, Edward F., 128 East Crescent St., Marquette, Mich. (60). C

Buchanan, James Isaac, Vice-President, Pittsburg Trust Co., Pittsburg, Pa. (51). I

Buchanan, Robert Earle, Professor of Bacteriology, Iowa State College, Ames, Iowa. (63). K

*Bucher, John Emery, Ph. D., Associate Professor of Organic Chemistry, Brown University, Providence, R. I. (54). 1908. C

*Buchner, Edward Franklin, Ph. D., Professor of Philosophy and Education, Johns Hopkins University, Baltimore, Md. (49). 1901. H L

Buck, A. Morris, care Railway Engineering Department, University of Illinois, Urbana, Ill. (58). D

Buck, J. Etna, Rural Retreat, Va. (60). F

*Buck, Thomas, Ph. D., 2131 Haste St., Berkeley, Cal. (58). 1910. A

*Buckhout, William A., Sc. D., Pennsylvania State College, State College, Pa. (20). 1881. G

*BUCKLEY, ERNEST ROBERTSON, Ph. D., Mining Geologist and Engineer, 1364 Peoples Gas Building, Chicago, Ill. (52). 1905. E

Buckwell, E. G., 1824 East 97th St., Cleveland, Ohio. (63).

*Budington, Robert Allyn, Associate Professor of Biology, Oberlin College, Oberlin, Ohio. (52). 1910. F K

BUEHLER, DR. HENRY ANDREW, Director, Missouri Bureau of Geology and Mines, Rolla, Mo. (63). E

Bueno, J. R. de-la-Torre, White Plains, N. Y. (58). F

*Buffum, Professor Burt C., Worland, Wyoming. (42). 1906. G

Bugbee, Alice Gates, M. D., 69 Hamilton Ave., White Plains, N. Y. (60). K

*Bull, Coates P., Assistant Professor of Agriculture, Minnesota Agricultural Experiment Station, St. Anthony Park, Minn. (52). 1911. G I L

*Bullard, Warren Gardner, Ph. D., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). 1906. A L

Bullene, Mrs. Emma F. Jay, 1409 Broadway, Denver, Colo. (50). H

Bullis, Abram Rogers, Macedon, N. Y. (58). A

Bullitt, James B., M. D., Professor of Anatomy, University of Mississippi, University, Miss. (55). H K

Bump, Milan R., Apartment 31, 15 Claremont Ave., New York, N. Y. (58). D

*Bumpus, Hermon Carey, Sc. D., Ph. D., Madison, Wis. (49). 1900. F L

*Bumstead, Henry Andrews, Ph. D., Professor of Physics, Yale University, New Haven, Conn. (60). 1910. B

Bundy, Zachary T., M. D., Austin, Texas. (60). K

Bunker, Henry A., M. D., 158 6th Ave., Brooklyn, N. Y. (50). I K

*Bunting, Charles Henry, M. D., Professor of Pathology, University of Wisconsin, Madison, Wis. (58). 1909. K

Bunting, Martha, Ph. D., 1732 Spruce St., Philadelphia, Pa. (60). F G H

*Bunzel, Herbert Horace, Ph. D., Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (60). 1911. C G

*Burbank, John Emerson, R. F. D. No. 1, Strong, Me. (57). 1909. B

*BURBANK, LUTHER, Sc. D., Santa Rosa, Cal. (50). 1901. G

Burchard, Anson W., 30 Church St., New York, N. Y. (51). D

Burdick, Alfred S., M. D., 2843 North Hermitage Ave., Chicago, Ill. (58). K

Burdick, Lewis Dayton, Oxford, N. Y. (52). H I

Burger, William Henry, Assistant Professor of Civil Engineering, Northwestern University, Evanston, Ill. (62). D

*Burgess, Albert F., Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. (54). 1906. F

*Burgess, Edward Sandford, Sc. D., Ph. D., 5 West 82d St., New York, N. Y. (47). 1901. E F G H

*Burgess, George Kimball, Sc. D., Ph. D., Bureau of Standards, Washington, D. C. (55). 1907. A B C

*Burgess, Laurie Lorne, Ph. D., 905 So. 6th St., Champaign, Ill. (60). 1911. C

*Burgess, Thomas J. W., M. D., Medical Superintendent, Protestant Hospital for the Insane, Montreal, Canada. (38). 1889. E G H

Burk, W. E., Apartado 233, Mexico, D. F., Mexico. (55). C K

Burke, Charles Victor, Livingston Hall, Columbia University, New York, N. Y. (60).

Burke, Milo Darwin, C. E., 706 2d National Bank Building, Cincinnati, Ohio. (50). A B C D E

Burleigh, Charles B., E. E., 1 Oak Terrace, Malden, Mass. (58). D

Burleigh, George Wm., 52 Wall St., New York, N. Y. (57). I

Burley, Benjamin T., M. D., 25 High St., Worcester, Mass. (60). K

Burling, Rev. Lancaster C., West Chicago, Ill. (58). E H K

Burling, Lancaster Demorest, Assistant Curator, U. S. National Museum, Washington, D. C. (60). E

Burlingame, Leonas Lancelot, Ph. D., Stanford University, Cal. (58). G

Burlingame, William B., M. E., Exeter, N. H. (60). D

Burnet, Wallace C., U. S. Food Inspection Laboratory, Custom House, Savannah, Ga. (60). C

*Burnett, Charles Theodore, Ph. D., Instructor in Psychology, Bowdoin College, Brunswick, Me. (54). 1911. F H I K

Burnett, Frederick, 1337 King St., West, Toronto, Canada. (56). D I

*Burnette, F. H., Professor of Horticulture, Louisiana State University, Baton Rouge, La. (54). 1906. F G

Burnham, Ernest, Director, Rural School Department, Western State Normal School, Kalamazoo, Mich. (63).

Burnham, George, Jr., C. E., of Burnham, Williams & Co., Baldwin Locomotive Works, Philadelphia, Pa. (51). D

*Burnham, Stewart Henry, Assistant to State Botanist, Geological Hall, Albany, N. Y. (60). 1911. G

*Burnham, William Henry, Ph. D., Professor of Pedagogy, Clark University, Worcester, Mass. (58). 1910. H L

Burns, Eleanor I., Professor of Physics, American College for Girls. Constantinople, Turkey. (58). B

Burns, Elmer Ellsworth, Department of Physics and Chemistry, High School, Berwyn, Ill. (58). B C

*Burns, George Plumer, Ph. D., Professor of Botany, University of Vermont, Burlington, Vt. (58). 1909. G

Burr, H. M., 106 Lawn Ave., Middletown, Conn. (60). C

Burr, I. Tucker, 53 State St., Boston, Mass. (60).

*Burr, William Hubert, Professor of Civil Engineering, Columbia University, New York, N. Y. (31). 1883. D

Burrell, Ramon Haddock, M. D., Creighton, Nebr. (51). K

*Burrill, Thomas Jonathan, Ph. D., LL. D., Professor of Botany, University of Illinois, Urbana, Ill. (53). 1905. G

Burris, Dean W. P., University of Cincinnati, Cincinnati, Ohio. (62).

Burroughs, Charles W., 66 Midland Ave., Arlington, N. J. (60).
Burrow, N. Trigant, M. D., Ph. D., 707 St. Paul St., Baltimore, Md. (60) K
Burrows, Charles William, President, The Burrows Brothers Company, Cleveland, Ohio. (63).
Burrows, George H., University of Vermont, Burlington, Vt. (60). C
*Burt, Edward Angus, Ph. D., Professor of Natural History, Middlebury College, Middlebury, Vt. (50). 1901. G
Burt, Frederick Arthur, Professor of Biology, Juniata College, Huntington, Pa. (60). F
Burt, Silas W., 216 West 100th St., New York, N. Y. (57). D E F
Burton, Dr. Alfred E., Dean, Massachusetts Institute of Technology, Boston, Mass. (60).
Burton, George D., President, Electro-Chemical Fibre Co., 185 Summer St., Boston, Mass. (63). C D
*Burton, Hon. Theodore E., M. C., Cleveland, Ohio. (52). 1905. I
*Burton-Opitz, Russell, M. D., Ph. D., Head of Department of Physiology, Columbia University, New York, N. Y. (52). 1905. K
*Busch, Frederick Carl, M. D., 19 Irving Place, Buffalo, N. Y. (49). 1906. F K
Busck, August, U. S. National Museum, Washington, D. C. (58). F
Bushnell, Miss Charlotte, 2232 East 49th St., Cleveland, Ohio. (60).
*Bushnell, D. I., Jr., University, Va. (51). 1903. H
Bushnell, George E., Fort Bayard, N. M. (60).
Bussey, George D., 77 Somerset Ave., Winthrop, Mass. (60).
*Bussey, William Henry, Ph. D., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (58). 1909. A
Bustamante, Delfin Sanchez, 1016 Bartolome Mitre Adroqué, F. C. S., Argentine Republic, S. A. (57). G
*Butler, Amos W., Secretary, Board of State Charities, Indianapolis, Ind. (30). 1885. F H I
*Butler, Bert S., U. S. Geological Survey, Washington, D. C. (57). 1911. E
*Butler, G. Montague, E. M., Assistant Professor of Geology and Mineralogy, Colorado School of Mines, Golden, Colo. (62). 1911. D E
Butler, Matthew Joseph, care Dominion Iron and Steel Co., Ltd., Sydney, N. S., Canada. (51). A B D
Butler, O., Ph. D., 419 Sterling Court, Madison, Wis. (62). G
Butler, Paul, care U. S. Cartridge Co., Lowell, Mass. (57). C
Butler, William M., Yeatman High School, St. Louis, Mo. (58). B
Butler, William Mill, 456 Fort Washington Ave., New York, N. Y. (57).
Butterbaugh, William Sherman, M. D., Atwood, Colo. (60). K
Butterfield, Arthur Dexter, Assistant Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. (50). A D
*Butterfield, Kenyon Leech, President, Massachusetts Agricultural College, Amherst, Mass. (60). 1910. I L

Butters, Charles H., 4132 Lyndale Ave., S., Minneapolis, Minn. (60). **C**

*Butters, Prof. Frederic King, 815 South 7th St., Minneapolis, Minn. (58). 1911. **G**

Butters, Roy Morrill, Assistant in Geology, University of Colorado, Boulder, Colo. (60). **E**

Butterworth, W. W., M. D., 3914 Prytania St., New Orleans, La. (60). **K**

Butts, Edward, C. E., 1800 East 18th St., Kansas City, Mo. (63). **D**

*Buxton, Bertram Henry, M. D., Professor of Experimental Medicine, Cornell University Medical College, New York, N. Y. (54). 1907. **F G**

Bye, Mortimer, Wm. S. Merrell Chemical Co., Cincinnati, Ohio. (60). **C**

Byers, Edward A., Teacher of Science, Fayetteville High School, Fayetteville, Ark. (62).

Byers, Horace Greeley, Ph. D., Professor of Chemistry, University of Washington, Seattle, Wash. (63). **C**

*Byrnes, Charles Metcalfe, M. D., Adjunct Professor of Anatomy, University of Virginia, Charlottesville, Va. (57). 1911. **K**

Byrnes, Clarence P., Frick Building Annex, Pittsburgh, Pa. (62).

Byrnes, Owen, Mining Engineer, Gould, Mont. (51). **D E**

*Cady, Hamilton Perkins, Ph. D., Assistant Professor of Chemistry, University of Kansas, Lawrence, Kans. (52). 1906. **B C**

Cady, Walter B., care Guantanamo Sugar Co., Guantanamo, Cuba. (56). **C**

*Cady, Walter Guyton, Ph. D., Wesleyan University, Middletown, Conn. (49). 1906. **B**

Cady, William Hamlin, Chemist, 127 Power St., Providence, R. I. (57). **C**

*Cain, William, Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. (50). 1901. **A D**

Caine, William Phillips, M. E., Box 27, Ensley, Ala. (60). **D**

Caird, James Morton, C. E., 271 River St., Troy, N. Y. (60). **D**

*Cajori, Florian, Ph. D., LL. D., Professor of Mathematics, Colorado College, Colorado Springs, Colo. (50). 1901. **A**

*Caldwell, Benjamin Palmer, Ph. D., Associate Professor of Chemistry, Tulane University, New Orleans, La. (55). 1909. **C**

Caldwell, Charles Peter, M. D., 4429 Michigan Ave., Chicago, Ill. (60). **K**

*Caldwell, Prof. Joseph Stuart, Botany Building, University of Chicago, Chicago, Ill. (60). 1911. **G**

*Caldwell, Otis William, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (49). 1902. **G L**

Calef, J. Francis, M. D., Middletown, Conn. (60). **K**

*Calhoun, Fred H. H., Ph. D., Professor of Geology and Mineralogy, Clemson Agricultural College, Clemson College, S. C. (54). 1911. **E**

*Calkins, Gary Nathan, Ph. D., Professor of Protozoology, Columbia University, New York, N. Y. (49). 1901. **F**

Calkins, Marshall, M. D., 14 Maple St., Springfield, Mass. (29). **K**

Calkins, R. D., Mt. Pleasant, Mich. (60). **E**

Call, Henry Lawrens, Box 1260, Boston, Mass. (57).

Callen, Alfred Copeland, E. M., 940 High St., Pottstown, Pa. (61). B

Calm, Charles Emil, Ph. D., care California Club, Los Angeles, Cal. (56). C E

*Calvert, Philip Powell, Ph. D., Assistant Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (50). 1903. F

*Calvert, Sidney, Ph. D., LL. D., University of Missouri, Columbia, Mo. (47). 1903. C

*Cameron, Frank Kenneth, Ph. D., Chemist, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (49). 1901. B C

Cameron, John E., Central High School, Kansas City, Mo. (54). F G

Cameron, Walter S., 239 West 136th St., New York, N. Y. (58). B C F G

Cammann, Hermann H., 84 William St., New York, N. Y. (49).

Camp, Frederick A., 32 West 129th St., New York, N. Y. (57). E

Camp, Joseph Parker, 2017 I St. N. W., Washington, D. C. (58). H

*Campbell, Douglas Houghton, Ph. D., Professor of Botany, Stanford University, Cal. (34). 1888. G

*Campbell, Edward De Mille, 1555 Washtenaw Ave., Ann Arbor, Mich. (58). 1911. C

Campbell, George Ashley, Ph. D., 15 Dey St., New York, N. Y. (63). D

*Campbell, Henry Donald, Sc. D., Ph. D., Professor of Geology and Biology, Washington and Lee University, Lexington, Va. (52). 1905. E F G

Campbell, Jessie R., 541 West Ave., Rochester, N. Y. (60). A

Campbell, John Pendleton, Ph. D., University of Georgia, Athens, Ga. (60). F

*Campbell, Leslie Lyle, Ph. D., 21 Ellery St., Cambridge, Mass. (48). 1910. B

*Campbell, Marius Robison, U. S. Geological Survey, Washington, D. C. (52). 1905. E

Campbell, Miss Mary R., 1464 East 55th St., Hyde Park Station, Chicago, Ill. (60).

Campbell, Robert A., Box 441, Fullerton, Nebr. (61). G

*Campbell, William Francis, M. D., 394 Clinton Ave., Brooklyn, N. Y. (57). 1911. K

Campbell, William Mullan, Assistant Professor of Physics, New York University, New York, N. Y. (57). B

*Campbell, William Wallace, Sc. D., LL. D., Director, Lick Observatory, Mt. Hamilton, Cal. (50). 1901. A

Canfield, George F., 49 Wall St., New York, N. Y. (57).

Canniff, W. H., 710 Hickox Building, Cleveland, Ohio. (63).

*Cannon, George Lyman, 1914 Pennsylvania St., Denver, Colo. (39). 1901. E

*Cannon, Walter Bradford, M. D., Professor of Physiology, Harvard Medical School, Boston, Mass. (54). 1906. K

*Cannon, William Austin, Ph. D., Desert Botanical Laboratory, Tucson, Ariz. (52). 1905. G

Butters, Charles H., 4132 Lyndale Ave., S., Minneapolis, Minn. (60). C

*Butters, Prof. Frederic King, 815 South 7th St., Minneapolis, Minn. (58). 1911. G

Butters, Roy Morrill, Assistant in Geology, University of Colorado, Boulder, Colo. (60). E

Butterworth, W. W., M. D., 3914 Prytania St., New Orleans, La. (60). K

Butts, Edward, C. E., 1800 East 18th St., Kansas City, Mo. (63). D

*Buxton, Bertram Henry, M. D., Professor of Experimental Medicine, Cornell University Medical College, New York, N. Y. (54). 1907. F G

Bye, Mortimer, Wm. S. Merrell Chemical Co., Cincinnati, Ohio. (60). C

Byers, Edward A., Teacher of Science, Fayetteville High School, Fayetteville, Ark. (62).

Byers, Horace Greeley, Ph. D., Professor of Chemistry, University of Washington, Seattle, Wash. (63). C

*Byrnes, Charles Metcalfe, M. D., Adjunct Professor of Anatomy, University of Virginia, Charlottesville, Va. (57). 1911. K

Byrnes, Clarence P., Frick Building Annex, Pittsburgh, Pa. (62).

Byrnes, Owen, Mining Engineer, Gould, Mont. (51). D E

*Cady, Hamilton Perkins, Ph. D., Assistant Professor of Chemistry, University of Kansas, Lawrence, Kans. (52). 1906. B C

Cady, Walter B., care Guantanamo Sugar Co., Guantanamo, Cuba. (56). C

*Cady, Walter Guyton, Ph. D., Wesleyan University, Middletown, Conn. (49). 1906. B

Cady, William Hamlin, Chemist, 127 Power St., Providence, R. I. (57). C

*Cain, William, Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. (50). 1901. A D

Caine, William Phillips, M. E., Box 27, Ensley, Ala. (60). D

Caird, James Morton, C. E., 271 River St., Troy, N. Y. (60). D

*Cajori, Florian, Ph. D., LL. D., Professor of Mathematics, Colorado College, Colorado Springs, Colo. (50). 1901. A

*Caldwell, Benjamin Palmer, Ph. D., Associate Professor of Chemistry, Tulane University, New Orleans, La. (55). 1909. C

Caldwell, Charles Peter, M. D., 4429 Michigan Ave., Chicago, Ill. (60). K

*Caldwell, Prof. Joseph Stuart, Botany Building, University of Chicago, Chicago, Ill. (60). 1911. G

*Caldwell, Otis William, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (49). 1902. G L

Calef, J. Francis, M. D., Middletown, Conn. (60). K

*Calhoun, Fred H. H., Ph. D., Professor of Geology and Mineralogy, Clemson Agricultural College, Clemson College, S. C. (54). 1911. E

*Calkins, Gary Nathan, Ph. D., Professor of Protozoology, Columbia University, New York, N. Y. (49). 1901. F

Calkins, Marshall, M. D., 14 Maple St., Springfield, Mass. (29). K

Calkins, R. D., Mt. Pleasant, Mich. (60). E

Call, Henry Lawrens, Box 1260, Boston, Mass. (57).

Callen, Alfred Copeland, E. M., 940 High St., Pottstown, Pa. (61). B

Calm, Charles Emil, Ph. D., care California Club, Los Angeles, Cal. (56). C E

*Calvert, Philip Powell, Ph. D., Assistant Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (50). 1903. F

*Calvert, Sidney, Ph. D., LL. D., University of Missouri, Columbia, Mo. (47). 1903. C

*Cameron, Frank Kenneth, Ph. D., Chemist, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (49). 1901. B C

Cameron, John E., Central High School, Kansas City, Mo. (54). F G

Cameron, Walter S., 239 West 136th St., New York, N. Y. (58). B C F G

Cammann, Hermann H., 84 William St., New York, N. Y. (49).

Camp, Frederick A., 32 West 129th St., New York, N. Y. (57). E

Camp, Joseph Parker, 2017 I St. N. W., Washington, D. C. (58). H

*Campbell, Douglas Houghton, Ph. D., Professor of Botany, Stanford University, Cal. (34). 1888. G

*Campbell, Edward De Mille, 1555 Washtenaw Ave., Ann Arbor, Mich. (58). 1911. C

Campbell, George Ashley, Ph. D., 15 Dey St., New York, N. Y. (63). D

*Campbell, Henry Donald, Sc. D., Ph. D., Professor of Geology and Biology, Washington and Lee University, Lexington, Va. (52). 1905. E F G

Campbell, Jessie R., 541 West Ave., Rochester, N. Y. (60). A

Campbell, John Pendleton, Ph. D., University of Georgia, Athens, Ga. (60). F

*Campbell, Leslie Lyle, Ph. D., 21 Ellery St., Cambridge, Mass. (48). 1910. B

*Campbell, Marius Robison, U. S. Geological Survey, Washington, D. C. (52). 1905. E

Campbell, Miss Mary R., 1464 East 55th St., Hyde Park Station, Chicago, Ill. (60).

Campbell, Robert A., Box 441, Fullerton, Nebr. (61). G

*Campbell, William Francis, M. D., 394 Clinton Ave., Brooklyn, N. Y. (57). 1911. K

Campbell, William Mullan, Assistant Professor of Physics, New York University, New York, N. Y. (57). B

*Campbell, William Wallace, Sc. D., LL. D., Director, Lick Observatory, Mt. Hamilton, Cal. (50). 1901. A

Canfield, George F., 49 Wall St., New York, N. Y. (57).

Canniff, W. H., 710 Hickox Building, Cleveland, Ohio. (63).

*Cannon, George Lyman, 1914 Pennsylvania St., Denver, Colo. (39). 1901. E

*Cannon, Walter Bradford, M. D., Professor of Physiology, Harvard Medical School, Boston, Mass. (54). 1906. K

*Cannon, William Austin, Ph. D., Desert Botanical Laboratory, Tucson, Ariz. (52). 1905. G

*Canter, Hall, Ph. D., Professor of Chemistry, Randolph-Macon College, Ashland, Va (54). 1909. C

Cantley, Thomas, New Glasgow, Nova Scotia. (60). D

Caparo, José Angel, Professor of Physics and Electrical Engineering, University of Notre Dame, Notre Dame, Ind. (62). B D

Caplin, Jessie, 2748 Hennepin Ave., Minneapolis, Minn. (60). A

*Capps, Joseph A., M. D., 2532 Prairie Ave., Chicago, Ill. (58). 1909. K

*Cardiff, Ira D., Ph. D., Professor of Botany, Washburn College, Topeka, Kans. (58). 1911. G

Carel, Hubert Charles, Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (62). C

Carey, Everett P., Instructor in Geography, Lowell High School, San Francisco, Cal. (50). E

*Carhart, Henry Smith, Sc. D., LL. D., 211 South El Molino Ave., Pasadena, Cal. (29). 1881. B

Carhart, Paul Worthington, care G. & C. Merriam Co., Springfield, Mass. (56). B

Cardon, Philip Vincent, Nephi, Utah. (63). G

Carle, James T., care U. S. Cast Iron Pipe and Foundry Co., Bessemer, Ala. (60). C

*Carleton, Mark Alfred, U. S. Department of Agriculture, Washington, D. C. (42). 1894. E G

Carlitz, Joseph S., 159 North Second St., Philadelphia, Pa. (60). C

*Carlson, Anton Julius, Ph. D., Associate in Physiology, University of Chicago, Chicago, Ill. (52). 1906. K

Carlyle, Elmer C., College Station, Tex. (58). C E

*Carman, Albert Pruden, Sc. D., Professor of Physics, University of Illinois, Urbana, Ill. (58). 1910. B

Carman, Albro R., M. D., 27 West 127th St., New York, N. Y. (60). K

Carman, J. Ernest, University of Cincinnati, Cincinnati, Ohio. (63). E

*Carmichael, Robert Daniel, Professor of Mathematics, Indiana University, Bloomington, Ind. (57). 1908. A

Carmody, T. E., M. D., 1427 Stout St., Denver, Colo. (60). K

Carnegie, Thomas Morrison, Fernandina, Fla. (50). F

*Carney, Frank, Ph. D., Professor of Geology, Denison University, Granville, Ohio. (58.) 1910. E

Carpenter, C. U., President, Herring-Hall-Marvin Safe Co., 400 Broadway, New York, N. Y. (60). D

Carpenter, C. W., Vermont Agric. Exper. Sta., Burlington, Vt. (63). G

Carpenter, Rev. Charles Knapp, 311 Park St., Elgin, Ill. (55). F

Carpenter, Delma Rae, Professor of Mathematics, Roanoke College, Salem, Va. (63). A

*Carpenter, Ford A., U. S. Weather Bureau, Los Angeles, Cal. (44). 1910. B D E L

Carpenter, Frances Ann, M. D., The Belleview-Manchester, Madison Ave. and Bloom St., Baltimore, Md. (54). K

*Carpenter, Frank Berton, Chief Chemist, Virginia-Carolina Chemical Co., Richmond, Va. (60). 1911. C

Carpenter, Frank G., 1318 Vermont Ave., Washington, D. C. (62).
*Carpenter, Frederic Walton, Ph. D., Instructor in Zoology, University of Illinois, Urbana, Ill. (58). 1909. F
Carpenter, John Lattimore, Ph. D., Palmerton, Pa. (63).
Carpenter, Leonard, Box 797, Medford, Oregon. (57).
*Carpenter, Prof. Louis G., Director, Agricultural College, Fort Collins, Colo. (32). 1889. D
Carpenter, William B., 54 Brooksdale Road, Brighton, Mass. (58). A L
Carr, William Kearny, 1413 K St. N. W., Washington, D. C. (52). B I
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Carrier, Aubrey D., Mechanicsville, N. Y. (60). C
Carrington, Thomas Spees, M. D., 105 East 22d St., New York, N. Y. (55). H K
Carroll, Anna Laurie, Instructor in Physics, State Normal School, Plattsburg, N. Y. (57). B
Carroll, John S., care German Kali Works, Continental Building, Baltimore, Md. (62).
Carruth, John G., Indiana Ave. and Rosehill St., Philadelphia, Pa. (54). D
Carson, Charles M., University of New Brunswick, Fredericton, New Brunswick, Canada. (60). C
Carson, William T., M. D., Holstein, Nebr. (60). K
Carstens, J. Henry, M. D., Detroit, Mich. (58). K
*Carter, Benjamin Edward, Colby College, Waterville, Me. (58). 1909. A
Carter, Bernard M., General Chemical Co., Buffalo, N. Y. (60). C
Carter, Charles, Parsons College, Fairfield, Iowa. (60). A
Carter, Charles W., M. D., Clinton, Ill. (60). K
Carter, Curtis C., Chapin, Ill. (61). A
Carter, Edna, Ph. D., Vassar College, Poughkeepsie, N. Y. (60). B
Carter, Edward Perkins, M. D., 1872 East 97th St., Cleveland, Ohio. (60). K
*Carter, James Madison G., M. D., Sc. D., Ph. D., 910 First National Bank Building, Chicago, Ill. (39). 1895. F
Carter, John E., 5356 Knox St., Germantown, Pa. (33). B H
Carter, Robert A., 4 Irving Place, New York, N. Y. (58).
Carty, John Joseph, American Telephone and Telegraph Co., 15 Dey St., New York, N. Y. (54). D
*Carus, Paul, Ph. D. Editor, Open Court Publishing Co., Drawer F, Chicago, Ill. (40). 1895. H
Carver, Gail Luke, Professor of Biology, Mercer University, Macon, Ga. (62). F
Case, Clarence E., M. D., Corner Park and Center Sts., Ashtabula, Ohio. (60). K
*Case, Ermine Cowles, Ph. D., Department of Geology, University of Michigan, Ann Arbor, Mich. (50). 1906. B C E
Case, George S., 2188 Scranton Road, Cleveland, Ohio. (63).

Case, Willard Erastus, Auburn, N. Y. (57). D

Case, Zophar, M. D., Warrensburg, Mo. (58). G H K

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*Castle, William Ernest, Ph. D., Payson Road, Belmont, Mass. (52). 1903. F

Cathcart, Wallace H., 633 Euclid Ave., Cleveland, Ohio. (63).

Catlett, Charles, E. M., Staunton, Va. (58). D

*Catlin, Charles Albert, 133 Hope St., Providence, R. I. (33). 1895. C

Catlin, Guy H., Science Master, Cathedral School of St. Paul, Garden City, Long Island, N. Y. (60). A

*CATTELL, JAMES MCKEEN, Ph. D., LL. D., Professor of Psychology, Columbia University, New York, N. Y. (44). 1896. B F H I

Caudell, Andrew Nelson, U. S. National Museum, Washington, D. C. (60). F

Cazin, Adele, 11 Elston Road, Upper Montclair, N. J. (60). B

Cederberg, W. E., Professor of Mathematics, Augustana College, Rock Island, Ill. (60). A

Cerna, David, M. D., Ph. D., Mayor, Monclova, Coahuila, Mexico. (51). K

*Chace, Arnold Buffum, Sc. D., 324 Angell St., Providence, R. I. (60). 1911. A

Chadbourn, Erlon R., Melrose, Mass. (29).

Chadbourne, Arthur P., M. D., Peterboro, N. H. (58). K

*Chadwick, George Halcott, Professor of Geology and Biology, St. Lawrence University, Canton, N. Y. (54). 1909. E F

Chaffee, Reginald R., Pennsylvania State College, State College, Pa. (63).

*Chamberlain, Charles Joseph, Ph. D., Associate Professor of Botany, University of Chicago, Chicago, Ill. (50). 1902. G

Chamberlain, Charles T., Jr., M. D., 306 Franklin St., Natchez, Miss. (60). K

*Chamberlain, Clark Wells, Ph. D., Professor of Physics, Vassar College, Poughkeepsie, N. Y. (53). 1907. B

Chamberlain, Edward Blanchard, 38 West 59th St., New York, N. Y. (57). F G

Chamberlain, Frederic M., U. S. Bureau of Fisheries, Washington, D. C. (51). F

Chamberlain, George E., M. E., 1811 Heyworth Building, Chicago, Ill. (60). D

*Chamberlain, Joseph S., Ph. D., Professor of Agricultural Chemistry, Massachusetts Agricultural College, Amherst, Mass. (58). 1910. C

Chamberlain, Philip William, C. E., Guapiles, Costa Rica, C. A. (60). D

Chamberlin, Emerson, Room 407, 60 Broadway, New York, N. Y. (57). I L

*Chamberlin, Ralph Vary, Ph. D., University of Pennsylvania, Philadelphia, Pa. (58). 1910. F

*Chamberlin, Rollin Thomas, Ph. D., Hyde Park Hotel, Chicago, Ill. (50). 1909. C E

*Chamberlin, Thomas C., Sc. D., Ph. D., LL. D., Head of Department of Geology, University of Chicago, Chicago, Ill. (21). 1877. B E F H

Chambers, Frank R., 842 Broadway, New York, N. Y. (50).

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Chambers, Harry L., M. D., Lawrence, Kans. (57). K

Chambers, Mary Davoren, Rockford College, Rockford, Ill. (60).

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Chambers, Will Grant, Professor of Education, University of Pittsburg, Pittsburg, Pa. (52). H L

*Chambliss, Charles Edward, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (51). 1906. F G

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Chancellor, William E., Superintendent of Schools, Norwalk, Conn. (52). I

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Chandler, Clarence Austin, Consulting Engineer, 24 Milk St., Boston, Mass. (52). B D

*Chandler, Elwyn Francis, Professor of Mathematics, University of North Dakota, University, N. Dak. (50). 1909. A D

Chandler, Miss Eva, 55 Stone Hall, Wellesley College, Wellesley, Mass. (61). L

Chaney, Prof. Lucian W., Bureau of Labor, Washington, D. C. (45). F

*Chant, Clarence Augustus, Ph. D., Associate Professor of Astrophysics, University of Toronto, Toronto, Canada. (54). 1906. A B

Chapin, Charles V., 84 Keene St., Providence, R. I. (60). I

Chapin, Theodore, U. S. Geological Survey, Washington, D. C. (63). E

Chapman, Evan A., Randolph, Nebr. (61). F

Chapman, George Andrew, M. D., 23 Elm St., Glens Falls, N. Y. (60). K

Chapman, George Henry, Clark Hall, Amherst, Mass. (61). G

Chapman, James E., E. M., Hidalgo, Bonanza, Zacatecas, Mexico. (60). D

Chapman, Miss Mary, 98 Calhoun St., Springfield, Mass. (58). C G

*Chapman, Robert Hollister, 2029 Q St., Washington, D. C. (52). 1911. E

Chappel, H. G., D. D. S., 630 El Dorado Ave., Oakland, Cal. (55). H K.

Charles, Grace Miriam, Ph. D., 1301 Ohio St., Lawrence, Kans. (62).

Charles, Rollin Landis, Instructor in Physics, Lehigh University, South Bethlehem, Pa. (58). A B

Charles, Miss Vera K., U. S. Department of Agriculture, Washington, D. C. (57). G

*Charlton, Orlando Clarke, Dallas High School, Dallas, Tex. (51). 1911. E F G

*Chase, Mrs. Agnes, U. S. Department of Agriculture, Washington, D. C. (54). 1911. G

*Chase, Frederick Lincoln, Ph. D., Director, Yale University Observatory, New Haven, Conn. (43). 1896. A

Chase, Frederick S., Waterbury, Conn. (60).

Chase, George Colby, D. D., LL. D., President, and Professor of Psychology, Bates College, Lewiston, Me. (54). H I L

Chase, Harry Gray, Professor of Physics, Tufts College, Tufts College, Mass. (52). B

Chase, Ira Carleton, M. D., 605 Penn St., Fort Worth, Tex. (52). K

*Chase, March F., care Mineral Point Zinc Co., Depue, Ill. (56). 1909. B C

Chatard, J. Albert, M. D., 1225 Maryland Ave., Baltimore, Md. (60). K

*Chatburn, George Richard, Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. (58). 1911. A D

Chauncey, Elihu, 208 Madison Ave., New York, N. Y. (57).

*Chauvenet, William Marc, E. M., 620 Chestnut St., St. Louis, Mo. (50). 1901. C D

Chazal, Philip E., P. O. Box 284, Charleston, S. C. (60). C

*Cheesman, Timothy Matlack, M. D., Garrison, N. Y. (50). 1901. K L

Cheever, Clarence Alonzo, M. D., 1531 Blue Hill Ave., Boston, Mass (53). G K

Cheney, Newel, R. F. D. 74, Kennedy, N. Y. (52). E G

Cheney, Walter L., M. E., Meriden, Conn. (60). D

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*Chester, Colby Mitchell, Rear Admiral, U. S. N., 1736 K St. N. W., Washington, D. C. (28). 1897. E

Chester, Wayland Morgan, Professor of Biology, Colgate University, Hamilton, N. Y. (50). F G

Chester, Webster, Associate Professor of Biology, Colby College, Waterville, Me. (57). F

*Chilcott, Ellery Channing, Fairfax C. H., Va. (50). 1911. E

*Child, Charles Manning, Ph. D., Assistant Professor of Zoology, Hull Zoological Laboratory, University of Chicago, Chicago, Ill. (50). 1901. F

Childers, L. F., Professor of Agronomy, University of Idaho, Moscow, Idaho. (61). F G

Childs, John Lewis, Floral Park, N. Y. (57). E F G

Chippendale, Arthur, E. M., La Mutua 418, Mexico, D. F., Mexico. (60). D

Chisholm, A. S., Station H, Cleveland, Ohio. (63).

Chisholm, Hugh J., 200 Fifth Ave., New York, N. Y. (50).

Chisolm, George E., 290 South St., Morristown, N. J. (50).

*Chittenden, Frank Hurlbut, Sc. D., Ph. D., U. S. Department of Agriculture, Washington, D. C. (48). 1901. F

*Chittenden, Jonathan Brace, Ph. D., Brooklyn Polytechnic Institute, Brooklyn, N. Y. (53). 1906. A

*Chittenden, Russell Henry, Sc. D., Ph. D., LL. D., Director, Sheffield Scientific School, Yale University, New Haven, Conn. (50). 1901. K

*Chivers, Prof. Arthur Houston, Dartmouth College, Hanover, N. H. (57). 1911. E G

Chowning, William M., M. D., 701 Donaldson Building, Minneapolis, Minn. (60). K

*Christian, Henry Asbury, M. D., 252 Marlborough St., Boston, Mass. (60). 1911. K

Christian, Wilmer, M. D., 530 Lemcke Building, Indianapolis, Ind. (58). K

Christianson, Andrew, cor. Pearl and Washington Sts., Butler, Pa. (58). D

Christie, E. W., Sewaren, N. J. (58). D

Christie, Emerson Brewer, Bureau of Science, Manila, P. I. (61). H

*Christie, James, Chief Mechanical Engineer, American Bridge Co., 100 Rochelle Ave., Wissahickon, Philadelphia, Pa. (33). 1894. D

*Chrysler, Mintin Asbury, Ph. D., Head, Department of Biology, University of Maine, Orono, Me. (57). 1909. G

Church, Arthur Latham, 500 North Broad St., Philadelphia, Pa. (54).

Church, Joseph B., 1628 Q St., N. W., Washington, D. C. (62).

Church, Melville, 1608 20th St., Washington, D. C. (63).

Churchill, Edmund P., Instructor in Physics and Chemistry, Rhode Island State Normal School, Providence, R. I. (61). B C

*Churchill, William, Ph. D., care Corning Glass Works, Corning, N. Y. (52). 1905. H

Churchward, Alexander, 30 Church St., New York, N. Y. (52). D

*Chute, Horatio Nelson, Instructor in Physical Sciences, Ann Arbor High School, Ann Arbor, Mich. (34). 1889. A B C

Claflin, Albert W., 190 Waterman St., Providence, R. I. (60). C

Clapp, Charles H., Geological Survey of Canada, Ottawa, Canada. (60).

*Clapp, Cornelia M., Ph. D., Professor of Zoology, Mt. Holyoke College, South Hadley, Mass. (31). 1883. F

Clapp, Eugene Howard, 49 Federal St., Boston, Mass. (60). C

*Clapp, Frederick Gardner, 331 4th Ave., Pittsburg, Pa. (51). 1906. E

Clapp, Gordon Adams, Department of Zoology, Oberlin College, Oberlin, Ohio. (63). F

Clark, A. Wayne, care Johnson and Johnson, New Brunswick, N. J. (54). C

Clark, Anna M., 416 West 118th St., New York, N. Y. (20). H

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*Clark, Austin Hobart, Smithsonian Institution, Washington, D. C. (52). 1906. E F

*Clark, Bertha May, Ph. D., William Penn High School, Philadelphia, Pa. (52). 1911. B

Clark, Burton W., U. S. Geological Survey, Washington, D. C. (58). C E

Clark, Charles Frederick, Ph. D., U. S. Department of Agriculture, Washington, D. C. (60). G

Clark, Clarence M., P. O. Box 18, Chattanooga, Tenn. (58). C

Clark, Clarence Munroe, 321 Chestnut St., Philadelphia, Pa. (54). I

Clark, Ernest D., Ph. D., Instructor in Biological Chemistry, Columbia University, New York, N. Y. (60). C

*Clark, Friend Ebenezer, Ph. D., Department of Chemistry, Central University, Danville, Ky. (51). 1909. C

Clark, George H., Department of Agriculture, Ottawa, Canada. (61). G

Clark, Harriet Bailey, M. D., 150 East Broad St., Columbus, Ohio. (60). K

*Clark, Howard Walton, Bureau of Fisheries, Biological Station, Fairport, Iowa. (52). 1906. F G

*Clark, Hubert Lyman, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (50). 1903. F

Clark, J. Edmund, F. R. M. S., Asgarth, Riddlesdown Road, Purley, Surrey, England. (61). E

*Clark, Prof. John Dustin, University of New Mexico, Albuquerque, New Mexico. (60). 1911. C

*Clark, Prof. John E., 34 South Park Terrace, Long Meadow, Mass. (17). 1875. A

Clark, John Jesse, Manager, Text-Book Department, International Text-Book Co., Scranton, Pa. (50). B D

Clark, Joseph Payson, M. D., 71 Marlborough St., Boston, Mass. (60). K

*Clark, Judson Freeman, Ph. D., 1164 Pacific St., Vancouver, B. C. (52). 1905. G

Clark, Leonard B., M. D., 36 Sycamore St., Waverley, Mass. (60). K

Clark, M. A., M. D., 805–6 Georgia Life Building, Macon, Ga. (58). K

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Clark, Paul Franklin, Ph. D., Rockefeller Institute, New York, N. Y. (61). K

*Clark, Robert Watson, University of Michigan, Ann Arbor, Mich. (61). 1911. E

Clark, Thomas H., Ph. D., 34 Lancaster St., Worcester, Mass. (40). C L

Clark, W. Blair, U. S. Department of Agriculture, Washington, D. C. (63). C

Clark, Walter Gordon, 149 Broadway, New York, N. Y. (57). B C D

Clark, William Brewster, M. D., 163 West 73d St., New York, N. Y. (33). C F K

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Clark, William Mansfield, U. S. Department of Agriculture, Washington, D. C. (62). C

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*Clarke, Frank Wigglesworth, Sc. D., LL. D., U. S. Geological Survey, Washington, D. C. (18). 1874. C

CLARKE, HOPEWELL, 775 Portland Ave., St. Paul, Minn. (62). E

Clarke, J. Alexander, Professor of Mathematics, C. M. T. High School, 17th and Wood Sts., Philadelphia, Pa. (60). A E

Clarke, James Frederic, M. D., University of Iowa, Fairfield, Iowa. (50). G K

*Clarke, John Mason, Sc. D., Ph. D., LL. D., New York State Geologist and Director of State Museum, Albany, N. Y. (45). 1897. E

*Clarke, Samuel Fessenden, Ph. D., Professor of Natural History, Williams College, Williamstown, Mass. (50). 1901. F

Clarke, Warren Thompson, Professor of Entomology, Berkeley, Cal. (57). F

Clarke, William A., E. E., 1638 Broadway, Toledo, Ohio. (60). D

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Clawson, Arthur Brooks, U. S. Department of Agriculture, Washington, D. C. (58). F

*Claxton, Philander P., LL. D., U. S. Commissioner of Education, Washington, D. C. (52). 1910. I

Claybaugh, W. W., M. D., 319 Main St., Fort Morgan, Colo. (60). K

Clayberg, George Manfred, Principal, McKinley High School, Chicago, Ill. (58). A B

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Cleaver, Albert Newton, 606 Delaware Ave., South Bethlehem, Pa. (50). D

*Cleaves, Margaret Abigail, M. D., 616 Madison Ave., New York, N. Y. (57). 1908. B C H K

*Cleghorn, Allen Mackenzie, M. D., Algonquin Park, Ontario, Canada. (60). 1911. K

*Cleland, Herdman F., Ph. D., Assistant Professor of Geology and Botany, Williams College, Williamstown, Mass. (57). 1907. E G

Clement, Harrison, E. M., Marengo, via Kindersley, Sask., Canada. (60). D

*Clements, Frederic Edward, Ph. D., Professor of Botany, University of Minnesota, Minneapolis, Minn. (52). 1905. G

Clements, George E., M. D., Crawfordsville, Ind. (52). K

*Clements, Julius Morgan, Ph. D., Economic Geologist and Mining Engineer, 20 Broad St., New York, N. Y. (51). 1903. D E

Clerc, Frank Laurent, Estes Park, Colo. (50). C D

*Clevenger, Prof. Joseph Franklin, Department of Botany, Pennsylvania State College, State College, Pa. (57). 1911. F G

Clickener, Charles, R. F. D. No. 1, Box 12, Silverwood, Ind. (60). F

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Clinch, Edward S., 133 West 121st St., New York, N. Y. (57).

*Clinton, George Perkins, Sc. D., Connecticut Agricultural Experiment Station, New Haven, Conn. (54). 1906. G

Clo, J. Harry, Ph. D., Assistant Professor, in charge Department of Physics, Tulane University, New Orleans, La. (63). B

Close, Charles Philip, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). G

Cloud, J. H., 608 East Main St., Valparaiso, Ind. (60). A

*Cloud, John W., 82 York Road, Kings Cross, N., London, England. (28). 1886. A B D

*Clough, Homer Woodworth, Arcade, N. Y. (54). 1910. A

Clover, Alphonso Morton, Ph. D., care Parke, Davis and Co., Detroit, Mich. (63). C

*Clute, Willard Nelson, 209 Whitley Ave., Joliet, Ill. (57). 1909. G

Clutz, Frank Hollinger, Ph. D., Chambersburg, Pa. (60). A

Coan, Titus Munson, M. D., 70 Fifth Ave., New York, N. Y. (60). E

*Coates, Charles Edward, Ph. D., Louisiana State University, Baton Rouge, La. (46). 1906. C

*Cobb, Prof. Collier, University of North Carolina, Chapel Hill, N. C. (49). 1905. E

*Cobb, Herbert Edgar, Professor of Mathematics, Lewis Institute, Chicago, Ill. (58). 1908. A D

*Cobb, Nathan Augustus, Ph. D., Chief, Division of Crop Technology, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (55). 1911. G

Cobb, Percy W., 4503 Hough Ave., Cleveland, Ohio. (63). K

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*Coblentz, Virgil, Ph. D., 23 Vine St., Brooklyn, N. Y. (58). 1910. C

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Coburn, Howard L., M. E., 83 Newbury St., Boston, Mass. (60). D

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Cochrane, Alexander, 40 Central St., Boston, Mass. (60).

Cockayne, Charles Alexander, Ph. D., President, Toledo University, Toledo, Ohio. (63). H

Cocke, William Irby, M. D., Port Washington, N. Y. (58). K

Cockefair, Edgar Augustus, State Normal School, Cape Girardeau, Mo. (61). G

*Cockerell, Theodore D. A., Professor of Zoology, University of Colorado, Boulder, Colo. (50). 1901. F G

Codman, Ernest A., M. D., 227 Beacon St., Boston, Mass. (60). K

*Coe, George Albert, Ph. D., LL. D., Professor of Philosophy, Union Theological Seminary, 606 West 122d St., New York, N. Y. (54). 1906. H L

Coe, Henry W., M. D., "The Marquam," Portland, Oregon. (32). F H K

Coe, Thomas Upham, M. D., Bangor, Me. (51). K

Coe, True D., M. D., Keithsburg, Ill. (58). C E G K
*Coe, Wesley Roswell, Ph. D., Professor of Biology, Yale University, New Haven, Conn. (58). 1910. F
Coffeen, Hon. H. A., Sheridan, Wyoming. (51).
Coffey, Walter Castella, 610 West Oregon St., Urbana, Ill. (61). F
Coffin, C. A., 145 West 58th St., New York, N. Y. (50).
Coffin, Fletcher Barker, Lake Forest, Ill. (53). C
*Coffin, Joseph George, Ph. D., College of the City of New York, New York, N. Y. (60). 1910. B
*Coffin, Selden Jennings, Ph. D., Professor of Astronomy, Lafayette College, Easton, Pa. (22). 1874. A I
Coffman, William H., M. D., Georgetown, Ky. (60). K
*Coghill, George Ellett, Ph. D., Professor of Zoology, Denison University, Granville, Ohio. (52). 1903. F
Coghill, William Hawes, Northwestern University, Evanston, Ill. (63). C
*Cogswell, William B., Vice-President, Solvay Process Co., Syracuse, N. Y. (33). 1891. D
*Cohen, Abraham, Ph. D., Johns Hopkins University, Baltimore, Md. (58). 1909. A
Cohen, Mendes, C. E., 825 North Charles St., Baltimore, Md. (50). D
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*Coker, William Chambers, Ph. D., Professor of Botany, University of North Carolina, Chapel Hill, N. C. (52). 1905. G
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*Cole, Leon Jacob, Ph. D., Professor of Experimental Breeding, University of Wisconsin, Madison, Wis. (52). 1909. F
*Cole, Percival Richard, Ph. D., ... (58). 1910. L
*Cole, Rufus I., M. D., Director, Rockefeller Hospital, New York, N. Y. (58). 1909. K
*Coleman, Arthur Philemon, Ph. D., University of Toronto, Toronto, Canada. (60). 1910. E
Coleman, George Albert, Curator, Department of Entomology, University of California, Berkeley, Cal. (60). F
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Colley, Bernard T., care Braden Copper Co., Rancagua, Chile, S. A. (60). D
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Collier, Price, Tuxedo Park, N. Y. (50).
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Collin, Rev. Henry Park, 98 East Chicago St., Coldwater, Mich. (37). E H
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*Corey, Samuel Arthur, Ph. D., Hiteman, Iowa. (58). 1909. A

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Cowan, William A., 129 York St., Brooklyn, N. Y. (58). A B C

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*Cowles, Alfred Hutchinson, Sewaren, N. J. (37). 1897. B C

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*Cowles, Henry Chandler, Ph. D., Associate Professor of Botany, University of Chicago, Chicago, Ill. (54). 1906. G

*Cowles, Miss Louise F., South Hadley, Mass. (47). 1905. E

*Cowles, Rheinart Parker, Ph. D., Associate in Biology, Johns Hopkins University, Baltimore, Md. (58). 1910. F

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*Cox, Charles Finney, President, New York Academy of Sciences, Grand Central Station, New York, N. Y. (43). 1900. F G

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Craig, Thomas, 26 Selkirk Ave., Montreal, Canada. (57). G

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Cramer, Charles H., 516 Madison St., Sandusky, Ohio. (62). A L

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Crandall, Roderic, Stanford University, Cal. (57). E

Crane, Marcus S., Caldwell, N. J. (58). F

Crane, Rev. William M., Ph. D., Richmond, Mass. (60).

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Cresson, Ezra Townsend, Jr., Swarthmore, Pa. (60). F

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Criddle, Norman, Treesbank, Manitoba, Canada. (63). G

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Crosby, Cyrus Richard, Cornell University, Ithaca, N. Y. (57). F

Crosby, Maunsell S., Rhinebeck, N. Y. (57). F

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Crosby, W. W., C. E., care Johns Hopkins University, Baltimore, Md. (60). D

Crosby, William Edward, ... (52).

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Crossley, Moses Leverock, Ph. D., Associate Professor of Organic Chemistry, William Jewell College, Liberty, Mo. (63). C

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Crowley, Charles F., John A. Creighton Medical College, Omaha, Nebr. (53). C

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Daggett, Herbert Chapin, E. E., 176 Federal St., Boston, Mass. (60). D

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*Dahlgren, Ulric, Ph. D., Assistant Professor of Biology, Princeton University, Princeton, N. J. (51). 1905. F

Dahm, Thomas M., Science Hall, Madison, Wis. (58). A B D

*Dains, Frank Burnett, Ph. D., Asso. Professor of Chemistry, University of Kansas, Lawrence, Kans. (56). 1908. C

Dake, Richard W., M. D., 218 7th Ave., N., Nashville, Tenn. (60). K

Dakin, Channing E., M. D., Century Block, Mason City, Iowa. (58). E H I K

Dakin, Henry Drysdale, Sc. D., 819 Madison Ave., New York, N. Y. (62). C

Dalaker, Hans H., Asst. Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (62). A D

Daland, Rev. William Clifton, D. D., President, Milton College, Milton, Wis. (52). I

Dalcour, Gustave T., Ellicott City, Md. (60).

*Dales, Benton, Ph. D., Professor of Analytical Chemistry, University of Nebraska, Station A, Lincoln, Nebr. (56). 1908. C

*Dall, William Healey, Sc. D., U. S. National Museum, Washington, D. C. (18). 1874. F G

*Dalrymple, William Haddock, Professor of Veterinary Science, Louisiana State University, Baton Rouge, La. (50). 1911. K

Damon, John Churchill, E. E., Walsen, Colo. (60). D

*Dana, Charles Loomis, M. D., LL. D., 53 West 53d St., New York, N. Y. (46). 1899. H K

Dana, Edmund Trowbridge, 113 Brattle St., Cambridge, Mass. (60).

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Danforth, Charles H., Washington University Medical School, St. Louis, Mo. (63). F

Daniel, J. Frank, Ph. D., Assistant Professor of Zoology, University of California, Berkeley, Cal. (60). F H

*Daniel, John, Professor of Physics, Vanderbilt University, Nashville, Tenn. (50). 1911. B

*Daniels, Francis, Ph. D., Wabash College, Crawfordsville, Ind. (60). 1911. G

Daniels, H. A., 613 Prospect St., Cleveland, Ohio. (63).

Daniels, Joseph, Asst. Professor of Mining Engineering, College of Mines, University of Washington, Seattle, Wash. (61). D E L

*Darling, Eugene A., M. D., 138 Brattle St., Cambridge, Mass. (62) 1911. K

Darling, John Henry, C. E., 532 West 3d St., Duluth, Minn. (60). D

*Darlington, Thomas, M. D., 48 West 59th St., New York, N. Y. (57). 1908. K

Dart, Carlton Rollin, C. E., 1536 West Monroe St., Chicago, Ill. (60). D

*Darton, Nelson H., Geologist, U. S. Bureau of Mines, Washington, D. C. (37). 1893. E

Dascher, Henry, 1 Madison Ave., New York, N. Y. (58). C

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*Davenport, Charles Benedict, Ph. D., Director, Station for Experimental Evolution, Cold Spring Harbor, Long Island, N. Y. (46). 1898. F G

Davenport, Mrs. Elizabeth Braxton, Lindenhurst, Brattleboro, Vt. (57). F G

*Davenport, Eugene, LL. D., Dean, College of Agriculture, University of Illinois, Champaign, Ill. (39). 1909. G

Davenport, Francis Henry, M. D., 419 Boylston St., Boston, Mass. (50). F K

David, William King, 829 West Cambria St., Philadelphia, Pa. (60). A

*Davidson, James Grant, Ph. D., McGill University College, Vancouver, B. C. (58). 1910. B L

*Davidson, Robert James, Virginia Polytechnic Institute, Blacksburg, Va. (40). 1911. C

Davies, Clara A., 362 Hudson Ave., Newark, Ohio. (63).

Davies, Julien T., 34 Nassau St., New York, N. Y. (57).

*Davis, Andrew McFarland, 10 Appleton St., Cambridge, Mass. (35). 1906. H

*Davis, Bergen, Ph. D., Adjunct Professor of Physics, Columbia University, New York, N. Y. (49). 1905. B

*Davis, Bradley Moore, Ph. D., Asst. Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (45). 1897. G

*Davis, Charles Albert, Ph. D., U. S. Bureau of Mines, Washington, D. C. (60). 1911. E

Davis, Charles Gilbert, M. D., 22 East Washington St., Chicago, Ill. (51). K L

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Davis, Edward E., 47 West Main St., Norwich, N. Y. (50). **E G**

*Davis, Ellery Williams, Ph. D., Professor of Mathematics, University of Nebraska, Lincoln, Nebr. (55). 1906. **A**

Davis, Grace Evangeline, Associate Professor of Physics, Wellesley College, Wellesley, Mass. (57). **B**

*Davis, Harvey Nathaniel, Ph. D., 507 Craigie Hall, Cambridge, Mass. (60). 1910. **A B**

*Davis, Herbert Burnham, Ph. D., State Normal School, California, Pa. (60). 1911. **H**

*Davis, Herbert Spencer, Ph. D., University of Florida, Gainesville, Fla. (57). 1911. **F**

*Davis, Herman Stearns, Ph. D., 1863 Frick Annex Building, Pittsburg, Pa. (50). 1901. **A D I**

*Davis, John Jefferson, M. D., Science Hall, Madison, Wis. (31). 1899. **G K**

Davis, John June, Experiment Station Building, La Fayette, Ind. (58). **F**

Davis, John Staige, M. D., 1200 Cathedral St., Baltimore, Md. (60). **K**

*Davis, Kary Cadmus, Ph. D., New Brunswick, N. J. (50). 1911. **B C D G L**

Davis, Lincoln, M. D., 217 Beacon St., Boston, Mass. (60). **K**

*Davis, Nathan Smith, 291 East Huron St., Chicago, Ill. (50). 1909. **F G K**

*Davis, Nathaniel French, LL. D., 159 Brown St., Providence, R. I. (54). 1906. **A**

Davis, W. Walley, 117 Pine St., Harrisburg, Pa. (60). **C**

*Davis, William Harper, 3032 North 15th St., Philadelphia, Pa. (50). 1903. **H I**

*Davis, Wm. Morris, Sc. D., Ph. D., 17 Francis Ave., Cambridge, Mass. (33). 1885. **B E**

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*Davison, Alvin, Ph. D., Professor of Biology, Lafayette College, Easton, Pa. (49). 1905. **F**

*Davison, John Mason, Pittsford, N. Y. (38). 1911. **C**

*Davisson, Schuyler Colfax, Sc. D., Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1908. **A**

*Davy, J. Burtt, Government Agrostologist and Botanist, Department of Agriculture, Pretoria, Transvaal, South Africa. (51). 1903. **G**

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Dawson, Jean, Ph. D., 10610 Earle Ave., Cleveland, Ohio. (62).
*Dawson, Percy Millard, M. D., 902 Baldwin Ave., Ann Arbor, Mich. (50). 1903. F K
Day, Frank Leighton, Ph. D., Professor of Philosophy, Randolph-Macon College, Ashland, Va. (63). H
Day, Leonard H., Hollister, Cal. (58). F
Day, Lucy M., Sage Cottage, Ithaca, N. Y. (61). H
*Day, William Scofield, Ph. D., 220 Hobart Ave., Summit, N. J. (50). 1901. B
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*Dean, Bashford, Ph. D., Professor of Vertebrate Zoology, Columbia University, New York, N. Y. (54). 1906. F
Dean, Charles Ray, The Burlington, Washington, D. C. (63).
Dean, Rollin Colegrove, 26 Prospect St., Summit, N. J. (61). F
Deans, John Sterling, Chief Engineer, Phœnix Bridge Co., Phoenixville, Pa. (51). D E
*Dearborn, George Van Ness, M. D., Ph. D., Professor of Physiology, Tufts College Medical and Dental Schools, Boston, Mass. (52). 1906. K
Dearborn, Ned, Sc. D., Linden, Md. (62).
*Dearborn, Walter Fenno, Ph. D., Assistant Professor of Education, Harvard University, Cambridge, Mass. (58). 1910. H L
Deavitt, H. M., Consulting Chemist, 160 No. Fifth Ave., Canal Station, Chicago, Ill. (58). C
*De Barr, Edwin, Ph. D., Professor of Chemistry, University of Oklahoma, Norman, Okla. (61). 1911. C
De Baufre, William L., E. E., Baltimore Polytechnic Institute, Baltimore, Md. (60). D
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*Decker, Charles Elijah, Professor of Geology and Biology, Allegheny College, Meadville, Pa. (58). 1911. E F
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Decker, W. F., 304 Andrus Building, Minneapolis, Minn. (60).
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*Deghuee, Joseph Albert, Ph. D., 247 Harrison St., Brooklyn, N. Y. (40). 1900. C
*Deimel, Richard Francis, Stevens Institute, Hoboken, N. J. (52). 1906. A B D
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*De Kalb, Courtenay, 667 Howard St., San Francisco, Cal. (54). 1911. D
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Delafield, Maturin L., Jr., St. Moritz-Dorf, Engadine, Switzerland. (43). G I L
Delamater, Nicholas B., M. D.,.....(58). K
De Landero, Carlos F., Assistant Director, Paschuca and Real del Monte Mining Co., Paschuca, Mexico. (36). B C
*Delano, Frederic A., President, Denver and Rio Grande R. R., 510 Wellington Ave., Chicago, Ill. (50). 1906. D
Delany, Patrick Bernard, E. E., Nantucket, Mass. (50). D
*Dellenbaugh, Frederic S., 226 West 78th St., New York, N. Y. (51). 1905. H
*Dellinger, Oris Polk, Ph. D., Normal School, Pittsburg, Kans. (58). 1911. K
Delm, William Maurice, Ph. D., University Station, Seattle, Wash. (58). C
De Loach, Robert J. H., Professor of Cotton Industry, State Agricultural College, Athens, Ga. (58). G I L
*De Long, Prof. Ira Mitchell, 1341 Broadway, Boulder, Colo. (60). 1910. A
*De Loubat, Le Duc, 53 rue Dumont d'Urville, Paris, France. (46) 1897. H
del Rosario, José I., Bureau of Science, Manila, P. I. (61).
Delwiche, Prof. Edmond Joseph, Asst. Agronomist, University of Wisconsin, Madison, Wis. (63). G
de Milhau, Louis J., 19 West 12th St., New York, N. Y. (56). H
Deming, Raymond M., Case School of Applied Science, Cleveland, Ohio. (63). A D
Demming, Henry Clay, Consulting Geologist, Mineralogist and Chemist, Box 5, Harrisburg, Pa. (54). C E
Demmler, Paul E., Charleston, W. Va. (58). C
*de Nancrede, Charles Beylard Guérard, M. D., LL. D., Professor of Surgery, University of Michigan, Ann Arbor, Mich. (54). 1909. K
Denig, Blanche A., M. D., Hotel Bristol, Copley Square, Boston, Mass. (60). K
Denison, Dr. Francis Napier, Dominion Meteorological Office, Victoria, B. C., Canada. (63). A B

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*Dennis, Louis Munroe, Professor of Inorganic Chemistry, Cornell University, Ithaca, N. Y. (43). 1895. C

Densmore, Emmet, M. D., Cassadaga, Fla. (54). F K

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Derby, Lieut.-Col. George McClellan, Corps of Engineers, U. S. Engineer Office, New Orleans, La. (50). D

*Derby, Orville A., Servico Geologico E Mineralogico de Brazil, Rio de Janeiro, Brazil, S. A. (39). 1890. E

*Derick, Carrie M., Professor of Morphological Botany, McGill University, Montreal, Canada. (57). 1909. G

Dery, D. George, Catasauqua, Pa. (55). C G

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Desmond, G., Chief Government Veterinarian, Adelaide, South Australia. (60). K

de Sta Cecelia, J. Felippe, E. E., Rua Alagoas 56, Bello Horisonte, Minas, Brazil, S. A. (60). D

Detmers, Freda, 1448 Neil Ave., Columbus, Ohio. (58). G

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Devereux, Walter B., 60 Broadway, New York, N. Y. (50). D E

Dewey, Grace, M. D., 1123 West State St., Jacksonville, Ill. (60). K

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*Dewey, Lyster Hoxie, U. S. Department of Agriculture, Washington, D. C. (40). 1899. G

Dewing, Dr. Frances Rousmaniere, 469 Broadway, Cambridge, Mass. (58). K

DeWitt, Charles H., Professor of Histology and Bacteriology, Valparaiso University, Valparaiso, Ind. (58). K

*De Wolf, Frank Walbridge, State Geological Survey, Urbana, Ill. (57). 1909. E

*Dexter, Edwin Grant, Ph. D., San Juan, Porto Rico. (52). 1905. K

Dexter, John S., Department of Biology, Northland College, Ashland, Wis. (61). F

DEY, ANTHONY, 69 Liberty St., New York, N. Y. (57).

de Zeeuw, Dr. Richard, Asst. Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (63). G

Dickerson, Charles E., Mount Hermon, Mass. (60).

Dickerson, Edgar L., 5 Broad St., Newark, N. J. (62). F

Dickerson, E. N., 141 Broadway, New York, N. Y. (49).
Dickerson, Mary Cynthia, Department of Woods and Forestry, American Museum of Natural History, New York, N. Y. (60). F
Dickie, George William, Marvin Building, 24 California St., San Francisco, Cal. (54). D
Dickinson, Breese M., M. D., 5711 Elgin Ave., Pittsburg, Pa. (60). K
Dickinson, Charles, Lock Box 788, Central Station, Chicago, Ill. (58).
*Dickinson, Hobart Cutler, Ph. D., Bureau of Standards, Washington, D. C. (60). 1910. B
Dickson, Archibald A. C., E. M., Rejonlie P. O., via Nawadah E. I. Ry., Gaya District, India. (60). D
Didier, Paul, C. E., B. & O. R. R. Co., N. S., Pittsburg, Pa. (60). D
*Diemer, Hugo, Professor of Mechanical Engineering, State College, Pa. (49). 1911. D L
Dietz, Carl Frederick, M. E., 8 Westland St., Worcester, Mass. (60). D
Dietz, William G., M. D., 21 North Vine St., Hazleton, Pa. (54). K
*Dike, Paul Harrison, Professor of Physics, Cornell College, Mt. Vernon, Iowa. (60). 1910. B
*Diller, Joseph Silas, U. S. Geological Survey, Washington, D. C. (52). 1903. E
Dilworth, James A., M. D., Aberdeen, Miss. (60). K
*Dimick, Chester Edward, 41 Squire St., New London, Conn. (60). 1911. A
*Dimmock, George, Ph. D., 531 Berkshire Ave., Springfield, Mass. (22). 1874. F
Dimock, George E., 907 North Broad St., Elizabeth, N. J. (57).
Dimon, Miss Abigail Camp, 367 Genesee St., Utica, N. Y. (50). F K
Dinkey, Alva C., E. E., 1116 Carnegie Building, Pittsburg, Pa. (50). D
Dinwiddie, Albert Bledsoe, Ph. D., Dean, Department of Arts and Sciences, Tulane University, New Orleans, La. (63).
Disbrow, William S., M. D., 151 Orchard St., Newark, N. J. (51). G K
*Ditman, Norman Edward, M. D., Ph. D., 26 East 48th St., New York, N. Y. (58). 1911. K
Diven, John M., C. E., 271 River St., Troy, N. Y. (60). D
*Dixon, Roland Burrage, Ph. D., Assistant Professor of Anthropology, Peabody Museum, Cambridge, Mass. (46). 1901. H
*Dixon, Samuel Gibson, M. D., LL. D., Academy of Natural Sciences, Philadelphia, Pa. (50). 1906. F K
*Doan, Frank Carleton, Ph. D., 519 Chestnut St., Meadville, Pa. (58). 1911. H
Doan, Martha, Vassar College, Poughkeepsie, N. Y. (60). A
Doane, Prof. Rennie Wilbur, 527 Homer Ave., Palo Alto, Cal. (60). F
Doane, Samuel Everett, E. E., 4411 Hough Ave., Cleveland, Ohio. (60). D
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Dodds, Gideon Stanhope, Ph. D., Instructor in Zoology, University of Missouri, Columbia, Mo. (57). F

Dodds, Robert, M. D., 144 Oakwood Boulevard, Chicago, Ill. (58). K

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*Dodson, Prof. William Rufus, Director and Botanist, Louisiana Experiment Station, Baton Rouge, La. (54). 1906. G

Doering, Prof. C. E., Bryn Athyn, Pa. (60). A

Doherty, Henry L., 60 Wall St., New York, N. Y. (48). B D

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Dole, Rev. Charles Fletcher, 14 Roanoke Ave., Jamaica Plain, Mass. (50). I

Dolson, Grace Neal, 267 Crescent St., Northampton, Mass. (60). H

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*Donaldson, Henry Herbert, Sc. D., Ph. D., Professor of Neurology, Wistar Institute of Anatomy, Philadelphia, Pa. (54). 1906. K

Dondlinger, Peter Tracy, Ph. D., Box 82, Stamford, Conn. (58). I

Donnelly, Thomas F., E. M., ... (60). D

Doolittle, Alfred A., 1027 Park Road, Washington, D. C. (62).

*Doolittle, Charles Leander, Sc. D., Flower Astronomical Observatory, University of Pennsylvania, Upper Darby, Pa. (25). 1885. A

*Doolittle, Prof. Eric, Upper Darby, Pa. (58). 1911. A

*Doolittle, Roscoe Edward, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. C

Doran, Edwin Wortham, Ph. D., State Agricultural School, Magnolia, Ark. (54). F

*Dorner, Herman Bernard, Agricultural Experiment Station, Urbana, Ill. (57). 1911. G

Dorr, Henry I., M. D., Hotel Dennis, Atlantic City, N. J. (60). K

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Doster, James J., Professor of Secondary Education, University of Alabama, Tuscaloosa, Ala. (61). L

Doty, Paul, care St. Paul Gas Light Co., St. Paul, Minn. (43). D

*Doubt, Thomas Eaton, Ph. D., 5402 Drexel Ave., Chicago, Ill. (48). 1909. B

Doughty, Mrs. Alla, Milford, Pa. (49). E G L

*Doughty, Howard Waters, Ph. D., Amherst, Mass. (58). 1911. C

Doughty, William H., Jr., M. D., 822 Greene St., Augusta, Ga. (58). K

*Douglas, James, LL. D., 99 John St., New York, N. Y. (49). 1905. E

Douglas, Theodore, E. M., Scarboro, N. Y. (58). D

Douglass, Alfred, Clyde St., Brookline, Mass. (57).

Douglass, Andrew Ellicott, Sc. D., Department of Physics and Astronoym, University of Arizona, Tucson, Ariz. (58). A B

Douglass, George Lyon, 108 So. La Salle St., Chicago, Ill. (55). I

Douglass, Thomas, M. D., Ozark, Ark. (60). K

Doulton, Mrs. Leslie, Box 302, Santa Barbara, Cal. (61). H

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Dow, Herbert H., Midland, Mich. (47). C

*Dowd, Jerome, Norman, Okla. (55). 1906. I

*Dowell, Philip, Ph. D., 86 Bond St., Port Richmond, N. Y. (50). 1911. G

Downey, James H., M. D., 28 Green St., Gainesville, Ga. (60). K

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Downs, Edgar Selah, Ph. D., Electrical Engineering Department, Columbia University, New York, N. Y. (50). B D

Downs, Norton, M. D., Fordhooke Farm, Three Tuns, Pa. (52). K

Draege, Mathilde, 2639 No. Charles St., Baltimore, Md. (60). E

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Drane, Walter Hugh, Professor of Civil Engineering, University of Mississippi, University, Miss. (58). D

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Drayer, Howard C., Yeatman High School, St. Louis, Mo. (51). B
*Dresbach, Melvin, M. D., Assistant Professor of Pharmacology, Cornell University, Ithaca, N. Y. (60). 1911. K
Drescher, William A. E., Bausch & Lomb Optical Co., Rochester, N. Y. (41). F
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Dresser, John Alexander, Manager, Lands Department, Algoma Central and Hudson Bay Railway Co., Sault Ste. Marie, Ontario, Canada. (63).
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*Dreyer, George Peter, Ph. D., 424 South 6th Ave., La Grange, Ill. (58). 1909. K
Driehaus, Irwin W., 1120 Amsterdam Ave., New York, N. Y. (60). B C
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*DROPPERS, GARRETT, Williams College, Williamstown, Mass. (50). 1901. I
Drowne, Henry B., C. E., Asst. Highway Engineer, Room 210, Hartley Hall, Columbia University, New York, N. Y. (60). D
Drucker, Aaron P., 6050 Monroe Ave., Chicago, Ill. (61).
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Drushel, William Allen, 329 Ellsworth Ave., New Haven, Conn. (61). C
*Dryer, Charles Redway, M. D., Professor of Geography, Indiana State Normal School, Terre Haute, Ind. (50). 1903. E L
Duane, Alexander, M. D., 149 East 37th St., New York, N. Y. (54). A H K
*Duane, William, Ph. D., care Morgan, Harjes and Co., 31 Boulevard Hausmann, Paris, France. (50). 1901. B
Dublin, Louis I., Ph. D., Metropolitan Life Insurance Co., Brooklyn, N. Y. (58). F G H K
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Du Bois, Mrs. George W., 789 Belvidere Ave., Plainfield, N. J. (57). E F G I L
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*Duckwall, Edward Wiley, Bacteriologist and Food Specialist, Aspinwall, Pa. (53). 1911. C

Dudgeon, Winfield, Professor of Zoology, Central University, Pella, Iowa. (62). F

Dudley, William H., Platteville, Wis. (62). F

*DUDLEY, WILLIAM LOFLAND, M. D., Vanderbilt University, Nashville, Tenn. (28). 1881. C

*Duerden, J. E., Ph. D., Professor of Zoology, Rhodes University College, Grahamstown, South Africa. (52). 1905. F G K L

*Dugan, Raymond Smith, Ph. D., Assistant Professor of Astronomy, Princeton University Observatory, Princeton, N. J. (55). 1907. A B

Dugan, William James, M. D., 2224 South Broad St., Philadelphia, Pa. (57). K

Duggan, Malone, M. D., Gibbs Building, San Antonio, Tex. (60). K

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*Duke, Prof. Frank Williamson, Virginia Mechanics Institute, Richmond, Va. (50). 1906. A

*Dumble, Edwin Theodore, Consulting Geologist, Southern Pacific Co., 2003 Main St., Houston, Tex. (37). 1891. C E

Dummer, Edward Lee, American Hosiery Co., New Britain, Conn. (61). B H

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Duncan, Frederick N., Ph. D., Oxford, Ga. (50). C F

*Duncan, George Martin, Professor of Philosophy, Yale University, New Haven, Conn. (50). 1902. H L

Duncan, James H., C. E., Searsport, Me. (58). D

*Duncan, John Charles, Ph. D., 69 Wendell St., Cambridge, Mass. (62). 1911. A

*Duncan, Robert Kennedy, Sc. D., Professor of Industrial Chemistry, University of Pittsburg, Pittsburg, Pa. (57). 1908. C

DUNCANSON, HENRY BRUCE, Professor of Biology, Nebraska State Normal School, Peru, Nebr. (50). F

Dungay, Prof. Neil Stanley, Department of Zoology, Carleton College, Northfield, Minn. (62). F

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Dunipace, Joseph Evans, 2329 Parkwood Ave., Toledo, Ohio. (57). C

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Dunlap, Will Knox, E. E., P. O. Box 911, Pittsburg, Pa. (60). D

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Dunster, Carl B., E. M., Marquette, Mich. (60). D

Dunyon, Newton A., E. M., 23 H St., Salt Lake City, Utah. (55). D E

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*Durand, Elias J., Sc. D., Assistant Professor of Botany, University of Missouri, Columbia, Mo. (41). 1899. G

Durand, Mrs. Frederic F., Maplewood, N. J. (58).

*Durand, William Frederick, Ph. D., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Cal. (37). 1890. B D

Durant, William B., Jr., 9 Lowell St., Cambridge, Mass. (61).

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Durkee, Eugene W., 534 Washington St., New York, N. Y. (57). D E

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Durrant, Edwin Poe, Assistant Professor of Anatomy and Physiology, Ohio State University, Columbus, Ohio. (62). K

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Durstine, W. E., 107 Burton Ave., N. E., Cleveland, Ohio. (60). A

Durward, Arthur, Lordsburg, Cal. (60). B

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Dutton, Walton Forest, M. D., 401 4th Ave., Carnegie, Pa. (60). K
*Duval, Charles Warren, M. D., Professor of Pathology and Bacteriology, Tulane University, New Orleans, La. (62). 1911. K
*Duval, Edmund P. R., 36 Bank St., Princeton, N. J. (50). 1906. A
*Duvall, Trumbull Gillette, Ph. D., Professor of Psychology and Philosophy, Ohio Wesleyan University, Delaware, Ohio. (52). 1906. H I L
*Duvel, Joseph W. T., Sc. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (48). 1905. G
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Dyar, Burt A., M. D., De Smet, S. D. (60). K
*Dyar, Harrison G., Ph. D., U. S. National Museum, Washington, D. C. (43). 1898. F
*Dyche, Prof. Lewis Lindsay, State Fish and Game Warden, Pratt, Kans. (51). 1906. F
Dyer, Isadore, M. D., 2222 Prytania St., New Orleans, La. (60). K
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Earle, Baylis H., M. D., U. S. Quarantine Station, Port Townsend, Washington. (60). K
*Earle, Prof. Franklin Sumner, Herradura, Cuba. (39). 1896. G
Earll, Charles Isaac, M. E., 159 West 105th St., New York, N. Y. (52). D
Earp, Edwin L., Ph. D., Drew Theological Seminary, Madison, N. J. (61)
*East, Edward Murray, Ph. D., Bussey Institution, Forest Hills, Boston, Mass. (57). 1911. C G
*Eastman, Charles Rochester, Ph. D., Carnegie Museum, Pittsburg. Pa (41). 1896. E F
*Eastman, John Robie, Ph. D., Professor of Mathematics, U. S. N., Andover, N. H. (26). 1879. A
Easton, Charles D., M. D., 36 Ayrault St., Newport, R. I. (60). K
Easton, Christopher, Old Capitol, St. Paul, Minn. (52). I K
*Eastwood, Miss Alice, care California Academy of Sciences, San Francisco, Cal. (50). 1901. G
*Eaton, Prof. Elon Howard, Hobart College, Geneva, N. Y. (52). 1906. F G
Eaton, Frederick Malcolm, 1014 Broadway, Oakland, Cal. (58). C
*Eaton, George Francis, Ph. D., 80 Sachem St., New Haven, Conn. (54). 1906. E
*Eaton, Harry Nelson, Chapel Hill, N. C. (56). 1911. E
Eaton, William S., 86 Trinity Place, New York, N. Y. (57).

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Edquist, Joshua Anderson, Gustavus Adolphus College, St. Peter, Minn. (61). E F G

*Edsall, David L., M. D., Mattapan, Mass. (60). 1911. K

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Ehmke, W. C., M. D., Willow River, Minn. (60). K
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*Ehrenfeld, Frederick, Ph. D., Assistant Professor of Geology, University of Pennsylvania, Philadelphia, Pa. (50). 1911. E
*Ehrhorn, Edward Macfarlane, care Board of Agriculture and Forestry, Honolulu, Hawaii. (50). 1906. F
*Eichelberger, William Snyder, Ph. D., Professor of Mathematics, U. S. Naval Observatory, Washington, D. C. (41). 1896. A
Eidlitz, Otto M., 489 Fifth Ave., New York, N. Y. (57).
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*Eiesland, John, Ph. D., Department of Mathematics, West Virginia University, Morgantown, W. Va. (50). 1903. A
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Einarsson, Sturla, University of California, Berkeley, Cal. (63). A
*Eisenhart, Luther Pfahler, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (60). 1910. A
Eisenhauer, John H., 1004 North Park St., McKeesport, Pa. (60). A
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*Elkin, William Lewis, Ph. D., Yale University, New Haven, Conn. (33). 1885. A
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Ellerman, Ferdinand, Assistant Astrophysicist, Mt. Wilson, Cal. (58). A B
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Elliott, C. H., Carbondale, Ill. (60). A
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*Elliott, Edward Charles, Ph. D., Associate Professor of Education, University of Wisconsin, Madison, Wis. (58). 1910. I L
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Ellis, Charles E., Iowa State College, Ames, Iowa. (60). C D E
*Ellis, Frederick Warren, M. D., Monson, Mass. (47). 1906. B K
Ellis, Henry Rives, 148 Pierpont St., Salt Lake City, Utah. (53). C D E
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Elsom, Harry E., Masontown, Pa. (58). C
Elton, Howard L., E. M., Oaxaca, Oaxaca, Mexico. (60). D
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Ely, Frederick G., 115 Broadway, New York, N. Y. (57).
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*Ely, Theodore Newel, Sc. D., Bryn Mawr, Pa. (29). 1886. D
Embody, George Charles, Ph. D., Instructor in Agriculture, Cornell University, Ithaca, N. Y. (61).
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*Emerson, Prof. Charles Franklin, Box 499, Hanover, N. H. (22). 1874. A B
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*Emerson, Herbert W., 400 West Lee St., Lawrence, Kans. (60). 1911. C
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*Emmel, Victor E., Ph. D., 1806 Locust St., St. Louis, Mo. (58). 1911. K
Emmert, Edward J., M. D., Lawrenceburg, Ind. (58). K
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Emmons, Arthur B., Newport, R. I. (50). E
Emmons, Newton W., M. E., Trout Lake, British Columbia. (58). D
Emmons, William Harvey, Ph. D., U. S. Geological Survey, Washington, D. C. (62). E
Emrich, William H., Marquette Club, Chicago, Ill. (58).
Enders, Prof. Henry E., Cooper Union, New York, N. Y. (60). C

*Enders, Howard Edwin, Ph. D., Assistant Professor of Zoology, Purdue University, La Fayette, Ind. (50). 1911. F

Enfield, Charles, M. D., Jefferson, Iowa. (58). K

*Engberg, Carl Christian, Ph. D., Professor of Mathematics, University of Nebraska, Lincoln, Nebr. (58). 1909. A

*Engelhardt, Francis Ernest, Ph. D., 405 City Hall, Syracuse, N. Y. (58). 1911. C

Engelhardt, George P., 373 Ocean Ave., Brooklyn, N. Y. (58). F

*Engler, Edmund Arthur, Ph. D., LL. D., Washington University, St. Louis, Mo. (50). 1901. A D L

Ennis, William Duane, M. E., Polytechnic Institute, Brooklyn, N. Y (58). D

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Ensign, William O., M. D., Rutland, Ill. (60). K

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Erwin, Walter Clifton, Director, School of Teaching, University of Oklahoma, Norman, Okla. (61).

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Esquerre, Edmond, Professor of Chemistry, Carnegie Technical Schools, Pittsburgh, Pa. (63). C

Essary, Samuel Henry, Assistant in Botany, University of Tennessee, Knoxville, Tenn. (54). 1911. G I

Essig, Edward O., Secretary, State Commission of Horticulture, Sacramento, Cal. (62). F G

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*Esterly, Calvin Olin, Ph. D., Professor of Biology, Occidental College, Los Angeles, Cal. (53). 1911. F

Estes, R. Logan, M. D., Meredosia, Ill. (60). K

*Esty, Thomas Cushing, Professor of Mathematics, Amherst College, Amherst, Mass. (58). 1911. A

*Esty, William, Professor of Electrical Engineering, Lehigh University South Bethlehem, Pa. (58). 1911. E D

Esty, William Cole, LL. D., 85 Elm St., Worcester, Mass. (60). A

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Evans, George W., Charlestown High School, Charlestown, Mass. (58). A

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*Eyerman, John, "Oakhurst," Easton, Pa. (33). 1889. C E

*Eyster, John A. English, M. D., Professor of Physiology, University of Wisconsin, Madison, Wis. (57). 1909. K

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Fairbank, Alexander W., M. D., Chazy, N. Y. (60). K

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*Fairbanks, Rev. Henry, Ph. D., St. Johnsbury, Vt. (14). 1874. A B D

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Farnam, Henry W., R. P. D., Professor of Economics, Yale University, New Haven, Conn. (62). I

Farnham, Amos W., Head, Department of Geography, State Normal School, Oswego, N. Y. (54). E

Farnham, Gordon, Box 145, Mt. Airy, Ohio. (60). C

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Farnsworth, Harry B., M. D., Montana Building, Missoula, Mont. (60). K

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Farrand, Wilson, Newark Academy, Newark, N. J. (61).
Farrell, Prof. Francis David, U. S. Department of Agriculture, Washington, D. C. (62). C
Farrington, Ernest A., M. D., Haddonfield, N. J. (61). K
*Farrington, Frederic Ernest, Teachers College, Columbia University, New York, N. Y. (61). 1912. L
*Farrington, Oliver Cummings, Ph. D., Field Museum of Natural History, Chicago, Ill. (58). 1909. E
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*Faught, John Brookie, Ph. D., Professor of Mathematics, Western State Normal School, Kalamazoo, Mich. (50). 1907. A
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Fawcett, Howard Samuel, care State Commissioner of Horticulture, Sacramento, Cal. (63). G
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Fenner, John Kelsey, Principal, Cranston High School, Auburn, R. I. (58). A B C D E G
*Ferguson, Alexander McGowan, Sherman, Tex. (51). 1905. G
*Ferguson, Jeremiah Sweetser, M. D., 330 West 28th St., New York, N. Y. (58). 1911. F K
*Ferguson, John Arden, Professor of Forestry, University of Missouri, Columbia, Mo. (60). 1911. G
*Ferguson, Margaret Clay, Ph. D., Associate Professor of Botany, Wellesley College, Wellesley, Mass. (54). 1906. G
Ferguson, Meade, Ph. D., Department of Health, 1110 Capitol St., Richmond, Va. (58). C G I K
Ferguson, Robert Henry, M. D., 9 North Munn Ave., East Orange, N. J.
Fergusson, Juliana A., Halesite, N. Y. (57).
(60). K

Fergusson, Sterling Price, Professor of Meteorology and Climatology, University of Nevada, Reno, Nevada. (62). A D

Fermier, Emile Jerome, Professor of Mechanical Engineering, Agricultural and Mechanical College of Texas, College Station, Tex. (58). A D

Fernald, Charles H., Ph. D., Amherst, Mass. (58). F

*Fernald, Henry Torsey, Ph. D., Massachusetts Agricultural Experiment Station, Amherst, Mass. (58). 1910. F

*Fernald, Prof. Merritt Lyndon, 14 Hawthorne St., Cambridge, Mass. (60). 1911. G

Fernald, Robert Heywood, Ph. D., Professor of Mechanical Engineering, Case School of Applied Science, Cleveland, Ohio. (63). D

Fernberger, Samuel W., 1306 North Broad St., Philadelphia, Pa. (60).

*Fernekes, Gustave, Ph. D., Houghton, Mich. (57). 1909. C

*Fernow, Bernhard Eduard, LL. D., University of Toronto, Toronto, Canada. (31). 1887. G I

Ferrier, Walter F., E. M., 204 Lumsden Building, Toronto, Canada. (60). D

Ferris, Harry Burr, M. D., Hunt Professor of Anatomy, Yale University, New Haven, Conn. (60). F K

*Ferry, Frederick Carlos, Sc. D., Ph. D., Williams College, Williamstown, Mass. (58). 1909. A

Ferry, Mansfield, 31 Nassau St., New York, N. Y. (58).

Fetterman, John Colvin, Castle Shannon, Pa. (51). E F

*Fewkes, J. Walter, Ph. D., Forest Glen, Md. (48). 1900. H

Fiala, Anthony, 148 83d St., Brooklyn, N. Y. (60). E

*Field, Cyrus West, M. D., Pathological Department, Bellevue Hospital, New York, N. Y. (58). 1909. K

*Field, George Wilton, Ph. D., 158 State House, Boston, Mass. (60). 1911. F

*Field, Herbert Haviland, Ph. D., Director. Concilium Bibliographicum, Zürich-Neumünster Kollikerstr-9, Zürich, Switzerland. (54). 1908. F

Field, Irving Angell, Instructor in Biology, Clark College, Worcester, Mass. (57). F

Field, Robert Franklin, 25 Wilson St., Providence, R. I. (63). B D

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Field, William Lusk Webster, Milton Academy, Milton, Mass. (47). E F L

FIELDE, ADELE MARION, The San Marco, 1205 Spring St., Seattle, Wash. (57). F H

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Findlay, Merlin Chamberlin, Professor of Biology, Park College, Parkville, Mo. (50). F

Fine, Morris S., Ph. D., 135 East 63d St., New York, N. Y. (60). C

*Fink, Bruce, Ph. D., Miami University, Oxford, Ohio. (45). 1899. G
*Fink, Colin Garfield, Ph. D., care General Electric Co., Harrison, N. J. (60). 1911. C
*Finkel, Benjamin Franklin, Ph. D., Professor of Mathematics and Physics, Drury College, Springfield, Mo. (60). 1910. A B
Finley, Norval Howard, 7229 Hermitage St., Pittsburg, Pa. (52). C D I
Finney, John M. T., M. D., 1300 Eutaw Place, Baltimore, Md. (60). K
Fippin, Elmer Otterbein, Professor of Soil Technology, Cornell University, Ithaca, N. Y. (62). G
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*Firmstone, Frank, Easton, Pa. (33). 1887. D
Firth, William P., 3 May Place, Rosedale, Toronto, Canada. (58). C
*Fisch, Carl, M. D., 3863 Pine St., St. Louis, Mo. (53). 1909. H K
Fischel, Washington E., M. D., Humboldt Building, St. Louis, Mo. (58). I K L
*Fischelis, Philipp, M. D., 828 North 5th St., Philadelphia, Pa. (60). 1911. K
Fischer, Charles E. M., M. D., 1922 West Chicago Ave., Chicago, Ill. (53). C F K
*Fischer, Louis Albert, Bureau of Standards, U. S. Department of Commerce and Labor, Washington, D. C. (47). 1906. A B C E
*Fischer, Martin H., M. D., Physiological Laboratory, University of Cincinnati, Cincinnati, Ohio. (58). 1909. K
*Fischer, Richard, Ph. D., Professor of Analytical Chemistry, University of Wisconsin, Madison, Wis. (58). 1909. C
Fischer, Walter, Vienna, Va. (60). G
Fish, Charles Henry, M. E., Garner Print Works and Bleachery, Wappingers Falls, N. Y. (51). D
Fish, Frederick P., 84 State St., Boston, Mass. (60).
*Fish, Pierre Augustine, D. V. M., Sc. D., Professor of Veterinary Comparative Physiology, Cornell University, Ithaca, N. Y. (49). 1901. K
Fish, William B., 10601 Ashbury Ave., Cleveland, Ohio. (63).
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Fisher, Carl D., M. D., 618 Mack Block, Denver, Colo. (55). F K
*Fisher, Cassius Asa, Consulting Geologist, 711 Ideal Building, Denver, Colo. (55). 1909. E
Fisher, Chester G., 717 Forbes St., Pittsburg, Pa. (60). C
*Fisher, Elizabeth Florette, Associate Professor of Geology, Wellesley College, Wellesley, Mass. (57). 1909. E
*Fisher, George Egbert, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (51). 1904. A
Fisher, George J., M. D., 124 East 28th St., New York, N. Y. (57). I K
Fisher, Henry D., M. E., care Fuel Testing Co., 220 Devonshire St., Boston, Mass. (60). D

*Fisher, Irving, Ph. D., Department of Political Economy, Yale University, New Haven, Conn. (50). 1901. A I

Fisher, James, Jr., Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. (58). A B

Fisher, Robert Jones, 614 F St. N. W., Washington, D. C. (50). D

Fisher, Robert Welles, M. D., N. E. corner 3d South and 5th East Sts., Salt Lake City, Utah. (51). K

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Fiske, Andrew, 216 Commonwealth Ave., Boston, Mass. (60).

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Fiske, Augustus Henry, 10 Buckingham Place, Cambridge, Mass. (58). C

*Fiske, Thomas Scott, Ph. D., Columbia University, New York, N. Y. (50). 1901. A

Fiske, W. F., care Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. (60). F

Fiske, Wilbur A., 545 E. Mountain St., Pasadena, Cal. (51). C E

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*Fitz, George Wells, M. D., Peconic, N. Y. (47). 1898. K

*Fitz Gerald, Francis A. J., Fitz Gerald and Bennie Laboratories, Niagara Falls, N. Y. (50). 1906. C

Fitzgerald, John Gerald, Associate Professor of Bacteriology, University of California, Berkeley, Cal. (63). K

Fitzgerald, William P., Chief Chemist, J. T. Baker Chemical Co., Phillipsburg, N. J. (60). C

Fitzpatrick, John F., 90 Western Ave., St. Paul, Minn. (62). K

*Fitzpatrick, Thomas J., Lamoni, Iowa. (52). 1905. A G L

*Fitz-Randolph, Raymond Bernard, Director, State Laboratory of Hygiene, Trenton, N. J. (54). 1911. C K

Flagg, Arthur L., 287 Highland Ave., Providence, R. I. (63). E

Flagg, Elisha, M. D., 190 Commonwealth Ave., Boston, Mass. (60). K

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Fleisher, Moyer S., M. D., Asst., Department of Pathology, St. Louis Skin and Cancer Hospital, St. Louis, Mo. (62). K

*Flemer, John Adolph, Constructing Topographical and Landscape Engineer, "Ingleside," Norma, Va. (62). 1911. D

Fleming, A. S., M. D., Wheaton, Minn. (60). K

*Fleming, John Adam, R. F. D. No. 2, Bethesda, Md. (48). 1909. A B D

Flemming, Dudley D., Gas Engineer, Lincoln Trust Building, 76 Montgomery St., Jersey City, N. J. (50). C D

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Flickinger, Junius R., Principal, Normal School, President, Pennsylvania Educational Association, Lock Haven, Pa. (51). I

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*Foot, Katharine, 80 Madison Ave., New York, N. Y. (58). 1910. F

*Foote, Allen Ripley, 334 Chamber of Commerce Building, Columbus, Ohio. (52). 1905. I

Foote, Arthur De Wint, C. E., Grass Valley, Cal. (60). D

*Foote, James Stephen, M. D., Professor of Histology, Creighton Medical College, Omaha, Nebr. (50). 1911. K

*Foote, Warren Mathews, 418 South Wycombe Ave., Lansdowne, Pa. (50). 1906. C E I L

Foran, George Jesse, M. E., 471 Central Park, West, New York, N. Y. (60). D

FORBES, ALEXANDER, Milton, Mass. (60).

Forbes, Amelia, Waltham Training School, Waltham, Mass. (60).

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*Forbes, Robert Humphrey, Professor of Chemistry, University of Arizona, Tucson, Ariz. (50). 1906. C

*Forbes, Stephen Alfred, Ph. D., LL. D., Professor of Entomology, University of Illinois, Urbana, Ill. (55). 1907. F

FORBES, WILLIAM T. M., Ph. D., 23 Trowbridge Road, Worcester, Mass. (61).

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Ford, Bruce, M. E., 25 Summit St., Chestnut Hill, Philadelphia, Pa. (60). D

Ford, John Howard, District Engineer, 4th District, San Fernando, Pampanga, P. I. (60). D

Ford, Starr, M. D., 19 West 7th St., Cincinnati, Ohio. (60). K

*Forrest, Charles Needham, New York Testing Laboratory, Maurer, N. J. (58). 1911. C

FORTMANN, HENRY FREDERICK, President, Alaska Packers Association, 1007 Gough St., San Francisco, Cal. (54). D

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Foshay, P. Maxwell, M. D., 168 Park St., Montclair, N. J. (61). K

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Foster, Dr. Romulus A., 2207 Massachusetts Ave., Washington, D. C. (63). K

Foster, Shirley W., Vienna, Va. (58). F

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Foster, Prof. William Trufant, President, Reed College, Portland, Ore. (60). I L

*Foulk, Charles William, Professor of Analytical Chemistry, Ohio State University, Columbus, Ohio. (51). 1906. C

*Fountain, Claude Russell, Ph. D., Professor of Physics, Kenyon College, Gambier, Ohio. (58). 1910. A B

Fouts, Jesse J., M. D., Gonzales, Texas. (60). K

*Fowle, Frederick Eugene, Astrophysical Observatory, Smithsonian Institution, Washington, D. C. (58). 1909. A B

Fowler, John V., M. D., 312 Grand Ave., Chicago, Ill. (58). K

*Fox, Henry, Ph. D., Professor of Biology, Ursinus College, Collegeville, Pa. (52). 1906. F

Fox, Hugh F., 109 East 15th St., New York, N. Y. (63).
*Fox, Philip, Dearborn Observatory, Evanston, Ill. (53). 1909. A B
*Fox, William, Associate Professor of Physics, College of the City of New York, New York, N. Y. (50). 1906. B D
Fox, William A., Glencoe, Ill. (58). D
*Foxworthy, Fred William, Ph. D., College of Agriculture and Forestry, Los Banos, Luzon, P. I. (52). 1911. G
*Fracker, George Cutler, Ph. D., Professor of Psychology and Education, Northern State Normal School, Marquette, Mich. (52). 1905. H L
Fraenkel, Joseph, M. D., 21 East 82d St., New York, N. Y. (50). H K
*Francis, Charles Kenworthy, Ph. D., Stillwater, Okla. (50). 1910. C
Francis, Dr. Mark, Texas Agricultural Experiment Station, College Station, Texas. (63). F
Frandsen, Peter, Professor of Zoology and Biology, University of Nevada, Reno, Nev. (62). F
Frank, Henry, 378 Vanderbilt Ave., Brooklyn, N. Y. (57).
Frankenthal, Lester E., M. D., 4825 Woodlawn Ave., Chicago, Ill. (60). K
*Frankforter, George Bell, Ph. D., Dean, College of Chemistry, University of Minnesota, Minneapolis, Minn. (43). 1901. C
*Frankland, Frederick William, "Okataina," Foxton, Manawatu, New Zealand. (50). 1906. A B E H I K
Franklin, Arthur I., 120 Firglade Ave., Springfield, Mass. (58). C
*Franklin, Mrs. Christine Ladd, LL. D., 527 W. 110th St., New York, N. Y. (47). 1899. H
*Franklin, Edward Curtis, Ph. D., P. H. and M. Hospital Service, Washington, D. C. (47). 1900. B C
Franklin, Milton W., M. D., E. E., General Electric Co., Schenectady, N. Y. (60). D
*Franklin, William Suddards, Sc. D., Professor of Physics, Lehigh University, South Bethlehem, Pa. (36). 1892. B
*Franz, Shepherd Ivory, Ph. D., Professor of Physiology, George Washington University, Washington, D. C. (55). 1909. H K
*Fraps, George Stronach, Ph. D., Associate Chemist, Agricultural Experiment Station, College Station, Tex. (54). 1906. C
Frary, Hobart D., 3108 Garfield Ave., Minneapolis, Minn. (61). A B
Frasch, Hans A., Exchange Court, 52 Broadway, New York, N. Y. (56). C
Fraser, C. McLean, Ph. D., 4 E. Prentiss St., Iowa City, Iowa. (63).
Fraser, George C., 20 Exchange Place, New York, N. Y. (57). E
*Fraser, Samuel, Box 655, Geneseo, N. Y. (58). 1911. G
Fraser, Frank Dean, 1206 Haight Ave., Portland, Ore. (58). A G
*Frazer, John, Ph. D., 928 Spruce St., Philadelphia, Pa. (58). 1909. C
*Frazier, Charles Harrison, M. D., 133 South 18th St., Philadelphia, Pa. (54). 1911. K
Frazier, W. W., 400 Chestnut St., Philadelphia, Pa. (54).
*Frear, William, Ph. D., 246 South Pugh St., State College, Pa. (33). 1886. C

*Frederick, Charles Warnock, U. S. Naval Academy, Annapolis, Md. (50). 1906. A B C

Free, Edward Elway, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (58). B C E

*Freedman, Prof. William Horatio, Head of Applied Electricity, Pratt Institute, Brooklyn, N. Y. (50). 1901. B D

Freeman, Charles, Ph. D., Director, Clark Chemical Laboratory, Westminster College, New Wilmington, Pa. (50). C

*Freeman, Edward Monroe, Ph. D., University Farm, St. Paul, Minn. (58). 1909. G

*Freeman, Frank Nugent, Ph. D., School of Education, University of Chicago, Chicago, Ill. (58). 1911. H L

Freeman, Gay Nichols, E. M., Thermopolis, Wyoming. (60). D

Freeman, Miss Harriet E., 37 Union Park, Boston, Mass. (57). E G

*Freeman, John Ripley, C. E., Sc. D., 235 Arlington Ave., Providence, R. I. (60). 1911. D

Freeman, Joseph Harlan, 45 Broadway, New York, N. Y. (63). A B D

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French, Harley Ellsworth, M. D., 501 No. 4th St., Grand Forks, N. D. (63). K

French, John Shaw, Ph. D., 151 Morris Ave., Providence, R. I. (58). A B L

French, Owen Bert, U. S. Coast and Geodetic Survey, Washington, D. C. (52). A D E

*French, Rev. Thomas, Jr., Ph. D., 1418 Alvarado Terrace, Los Angeles, Cal. (30). 1883. B H

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Frick, Prof. John H., Department of Mathematics, Central Wesleyan College, Warrenton, Mo. (27). A B E

*Friedenwald, Harry, M. D., Associate Professor of Ophthalmology and Otology, College of Physicians and Surgeons, Baltimore, Md. (51). 1909. K

Friedenwald, Julius, M. D., Professor of Gastroenterology, College of Physicians and Surgeons, Baltimore, Md. (63). K

Frierson, L. S., Frierson, La. (54). F

*Fries, Harold H., Ph. D., 92 Reade St., New York, N. Y. (40). 1898. C K

Fries, J. August, State College, Pa. (57). C

Fries, John W., Winston-Salem, N. C. (56). C

Frisbie, Jesse F., M. D., Box 455, Newton, Mass. (29). E H K

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Frissell, A. S., President, Fifth Avenue Bank of New York, 530 Fifth Ave., New York, N. Y. (52). I

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Fritch, Louis Charlton, C. E., Chief Engineer, C. G. W. R. R., 468 Grand Central Station, Chicago, Ill. (60). D

*Fritz, John, E. M., 155 Market St., Bethlehem, Pa. (60). 1912. D

Fromme, Fred Denton, Department of Botany, Columbia University, New York, N. Y. (63). G

Frost, Arthur Barzilla, 1619 Ridgefield Street, Cleveland Heights, Ohio. (53). C

*Frost, Edwin Brant, Director, Yerkes Observatory, Williams Bay, Wis. (38). 1890. A B

Frost, Miss Lilla Ninette, Centre Sandwich, N. H. (57). G

*Frost, William Dodge, Ph. D., Associate Professor of Bacteriology, University of Wisconsin, Madison, Wis. (50). 1906. K

Frost, Dr. W. H., Hygienic Laboratory, Washington, D. C. (63).

*Frothingham, Channing, Jr., M. D., 51 Hereford St., Boston, Mass. (60). 1911. K

FROTHINGHAM, MRS. FREDERICK, care Alex. Wright, Esq., Fullerton, Cal. (31). A F I

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Frye, Maud J., M. D., 211 Highland Ave., Buffalo, N. Y. (60). K

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Fryette, Harrison H., M. D., 506 Trude Building, Chicago, Ill. (58). K

Fuchs, Ernesto, M. E., Apartado No. 334, Guadalajara, Mexico. (58). D

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*Fulcher, Gordon Scott, Ph. D., Instructor in Physics, University of Wisconsin, Madison, Wis. (58). 1911. B

Fulda, Clemens, M. D., 107 Kent St., Brooklyn, N. Y. (57). K

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Fuller, Charles Gordon, M. D., 500 Reliance Building, Chicago, Ill. (35). F K

FULLER, FRANK, 61 Fifth Ave., New York, N. Y. (57).

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Fuller, George Damon, Department of Botany, University of Chicago, Chicago, Ill. (62). G

*Fuller, George Warren, 170 Broadway, New York, N. Y. (50). 1903. D

Fuller, Harry V., Huttenstrasse 52, Zurich, Switzerland. (60). C

*FULLER, MYRON LESLIE, 104 Belmont Ave., Brockton, Mass. (50.) 1905. E

Fullmer, Prof. Edward Lawrence, Baldwin University, Berea, Ohio. (50). F

*Fulmer, Prof. Elton, Pullman, Washington. (58). 1911. C E

*Fulton, Harry Rascoe, Department of Botany, Pennsylvania State College, State College, Pa. (58). 1911. G

*Fulton, Robert Burwell, LL. D., Miller School, Va. (21). 1887. A B

Furlow, Floyd Charles, V. P., Plunger Elevator Co., 17 Battery Place, New York, N. Y. (50). D

Furman, Davis, M. D., 229 River St., Greenville, S. C. (60). K

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Furney, Elliott E., M. D., 3417 Morgan St., St. Louis, Mo. (60). K

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Gaba, Meyer Grupp, Dartmouth College, Hanover, N. H. (62). A

Gabriel, Prof. George Andrew, Iowa State College, Ames, Iowa. (58). A B C D E

Gaehr, Paul Frederick, Ph. D., Professor of Physics, Wells College, Aurora, N. Y. (58). A B

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Gage, Homer, M. D., 8 Chestnut St., Worcester, Mass. (61). K

Gage, Otis Amsden, Ph. D., Assistant Professor of Physics, University of Wisconsin, Madison, Wis. (61). B

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Gage-Day, Mary, M. D., 207 Wall St., Kingston, N. Y. (51). K

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Gaines, William D., M. D., Lafayette, Ala. (60). K

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*Gale, Arthur Sullivan, Ph. D., Professor of Mathematics, University of Rochester, Rochester, N. Y. (54). 1906. A

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*Galloway, Beverly Thomas, LL. D., U. S. Department of Agriculture, Washington, D. C. (37). 1890. G

Galloway, David H., M. D., Roswell, New Mexico. (60). K

Galloway, John D., C. E., 1500 Euclid Ave., Berkeley, Cal. (60). D

*Galloway, Thomas Walton, Ph. D., Professor of Biology, James Millikin University, Decatur, Ill. (45). 1901. F G H L

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*Gane, Henry Stewart, Ph. D., Long Beach, Wash. (58). 1910. E

Ganong, Walter Kierstead, Professor of Electrical Engineering, University of Maine, Orono, Me. (57). D

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Gardiner, Rev. Frederic, Yeates School, Lancaster, Pa. (47). F L

Gardner, Rev. Corliss B., Spencerport, N. Y. (29). A I

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Garfias, Valentine R., C. E., 700 H. W. Hellman Building, Los Angeles, Cal. (63). D

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Garner, Clem. L., U. S. Coast and Geodetic Survey, Manila, P. I. (62). D

*Garner, James Bert, Ph. D., Professor of Chemistry, Wabash College, Crawfordsville, Ind. (53). 1909. C

*Garrett, Albert O., Secretary, Utah Academy of Sciences, 615 South 9th East St., Salt Lake City, Utah. (50). 1911. G

Garrett, J. B., State Crop Pest Commission, Baton Rouge, La. (58). F

GARRETT, MRS. T. HARRISON, Evergreen-on-Avenue, Baltimore, Md. (60).

Garrison, Wilbert A., Assistant Professor of Mathematics, Union College, Schenectady, N. Y. (58). A L

*Garvin, John Brewer, Instructor in Chemistry, East Side High School, Denver, Colo. (50). 1911. C

Gary, Lester Bennett, 263 Hoyt St., Buffalo, N. Y. (53). F

Gates, Burton Noble, Ph. D., Professor of Psychology, Massachusetts Agricultural College, Amherst, Mass. (58). F G H K

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Gaumnitz, Daniel A., Asst. Professor of Animal Husbandry, Agricultural Experiment Station, St. Paul, Minn. (55). F

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Gavett, George Irving, 5018 University Boulevard, Seattle, Wash. (58). A

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Gay, George W., M. D., Chestnut Hill, Mass. (60). K

Gaylord, Joseph S., Instructor, Normal School, Winona, Minn. (62).

Geballe, Pauline I., Teacher in Physics and Chemistry, 1949 Pine St., San Francisco, Cal. (57). B C

Gee, Wilson Parham, Asst. Professor of Zoology, Clemson Agricultural College, Clemson College, S. C. (63). F G

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Gentsch, Charles, M. D., 2826 Franklin Ave., Cleveland, Ohio. (60). K

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*Georgeson, Charles Christian, Professor of Agriculture, Sitka, Alaska. (60). 1911. G

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Gerhard, William J., Field Museum of Natural History, Chicago, Ill. (60). F

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*Gerrish, Frederic Henry, M. D., LL. D., 675 Congress St., Portland, Me. (60). 1911. K

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Geyer, William E., Stevens Institute of Technology, Hoboken, N. J. (60). C

Gibbs, David, Ph. D., Superintendent of Schools, Meriden, Conn. (62). L

Gibbs, George, C. E., Pennsylvania Station, New York, N. Y. (57.) B C D E

Gibbs, Dr. W. D., President, New Hampshire College, Durham, N. H. (63).

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Gideon, Abraham, C. E., City Hall, Manila, P. I. (60). D

*Gidley, James Williams, U. S. National Museum, Washington, D. C. (62). 1911. E

Gierisch, Otto F., E. E., 515 W. 110th St., New York, N. Y. (60). D

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Giffard, Walter M., P. O. Box 308, Honolulu, Hawaii. (58). F

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*Gilbert, Arthur Witter, Ph. D., Assistant Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (58). 1911. G

Gilbert, Edward Hooker, Ware, Mass. (60).

Gilbert, Edward M., Instructor in Botany, University of Wisconsin, Madison, Wis. (62). G

*GILBERT, GROVE KARL, LL. D., U. S. Geological Survey, Washington, D. C. (18). 1874. E

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Gilbert, John Philo, Carbondale, Ill. (60). F

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Gilbert, Ralph D., Ph. D., 43 Chatham St., Boston, Mass. (58). C

Gilbert, Walter M., Assistant Secretary, Carnegie Institution of Washington, Washington, D. C. (54). L

Gilbert, William W., U. S. Department of Agriculture, Washington, D. C. (63). G

Gilbertson, Albert N., University of Minnesota, Minneapolis, Minn. (61). H

*Gilchrist, T. Caspar, M. D., Clinical Professor of Dermatology, Johns Hopkins University, Baltimore, Md. (52). 1911. K

*Gildersleeve, Nathaniel, M. D., Associate in Bacteriology, Department of Hygiene, University of Pennsylvania, Philadelphia, Pa. (52). 1906. C F G K

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*Gill, Augustus Herman, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (44). 1896. C

Gill, John Boyd, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (62). F

Gill, Miss Laura Drake, University of the South, Sewanee, Tenn. (58). A

*Gill, Theodore Nicholas, M. D., Ph. D., LL. D., Professor of Zoology, George Washington University, Washington, D. C. (17). 1874. F K

*Gillespie, William, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (58). 1909. A

Gillet, Harry Orrin, University of Chicago, Chicago, Ill. (60). A

*Gillett, Arthur Lincoln, Professor of Apologetics, Hartford Theological Seminary, Hartford, Conn. (54). 1906.

Gillett, Harry, 813 Superior Ave., N. W., Cleveland, Ohio. (63).

Gillette, Arthur Alfred, M. D., 511 North Washington St., Rome, N. Y. (60). K

*Gillette, Clarence P., Professor of Zoology, Colorado Agricultural College, Fort Collins, Colo. (50). 1901. F

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Gilman, Albert Franklin, Professor of Chemistry, Ripon College, Ripon, Wis. (62). C

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Girault, A. Arsene, Brisbane, Queensland, Australia. (57). F

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Given, Guy C., State College, Pa. (60). C

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*Glenn, Leonidas Chalmers, Ph. D., Professor of Geology, Vanderbilt University, Nashville, Tenn. (50). 1903. E

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Goddard, Henry Herbert, Ph. D., Vineland, N. J. (57). L

*Goddard, Pliny Earle, Ph. D., Associate Curator of Anthropology, American Museum of Natural History, New York, N. Y. (62). 1912. F

Goddard, Robert Hutchings, Ph. D., Clark University, Worcester, Mass. (63). B

Godfrey, Almon Tanner, M. D., Hope College, Holland, Mich. (60). C K

Godfrey, Charles C., M. D., 753 Lafayette St., Bridgeport, Conn. (51). G K

Godfrey, Henry T., M. D., 5120 Cass St., Omaha, Nebr. (58). K

Goding, Frederic Webster, M. D., Ph. D., American Consulate, Montevideo, Uruguay. (60). F K

Goebel, Julius, Ph. D., Professor of German, University of Illinois, Urbana, Ill. (60). L

Goetsch, Emil, M. D., Ph. D., Johns Hopkins Hospital, Baltimore, Md. (63). K

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Golden, Isaac J. K., M. D., 2238 West North Ave., Chicago, Ill. (58). K

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Goldman, Marcus Isaac, Geological Department, Johns Hopkins University, Baltimore, Md. (58). E

GOLDSBOROUGH, JOHN BYRON, Croton-on-Hudson, N. Y. (57).

*Goldschmidt, Samuel Anthony, Ph. D., 11 Broadway, New York, N. Y. (24). 1880. C

Goldsmith, Byron B., 19 East 74th St., New York, N. Y. (58). B C D

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Goldthwait, Joel E., M. D., 372 Marlborough St., Boston, Mass. (60). K

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*Goldthwaite, Nellie Esther, Ph. D., University of Illinois, Urbana, Ill. (47). 1910. C K

Goltman, Max, M. D., 410 Union Ave., Memphis, Tenn. (60). K

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*Gooch, Frank Austin, Ph. D., Professor of Chemistry, Yale University, New Haven, Conn. (25). 1880. C

Good, Grover Charles, Head Master, Howe School, Howe, Ind. (63). L

*Goodale, George Lincoln, M. D., LL. D., 5 Berkeley St., Cambridge, Mass. (18). 1875. G

Goodale, Hubert Dana, R. F. D. No. 29, Oakwood, Stamford, Conn. (57). F

*Goodale, Joseph Lincoln, M. D., 258 Beacon St., Boston, Mass. (50). 1906. F K

Goodale, Stephen Lincoln, Professor of Metallurgy, University of Pittsburg, Pittsburg, Pa. (61). D

*Goode, John Paul, Ph. D., Assistant Professor of Geography, University of Chicago, Chicago, Ill. (52). 1905. E H I L

Goodell, F. E., North High School, Des Moines, Iowa. (60).

Goodman, Abraham Lincoln, M. D., 136 West 87th St., New York, N. Y. (56). H I K

Goodman, Henry M., M. D., 721 3d Ave., Louisville, Ky. (60). K

Goodnow, Henry R., 98 Riverside Drive, New York, N. Y. (32). B C

Goodrich, Julia Irene, Secretary, Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (60). F

*Goodspeed, Arthur Willis, Ph. D., Laboratory of Physics, University of Pennsylvania, Philadelphia, Pa. (47). 1898. B

Goodspeed, Thomas Harper, Department of Botany, University of California, Berkeley, Cal. (63). G

*Goodwin, Harry Manley, Ph. D., Professor of Physics, Massachusetts Institute of Technology, Boston, Mass. (47). 1901. B

Goodwin, Rev. James, 76 Garden St., Hartford, Conn. (52). I

Goodwin, W. Nelson, Jr., 70 Sanford St., East Orange, N. J. (58). B D

*Goodwin, William Lawton, Sc. D., School of Mining, Kingston, Ontario, Canada. (60). 1911. C

*Goodyear, William Henry, Museum of Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y. (43). 1902. H

*Gordin, Harry Mann, Ph. D., Northwestern University School of Pharmacy, Chicago, Ill. (56). 1911. C

Gordon, A. T., Mount Iron, Minn. (60). C

*Gordon, C. McCheyne, Ph. D., Professor of Physics, Lafayette College, Easton, Pa. (48). 1906. A B C

*Gordon, Charles Henry, Ph. D., University of Tennessee, Knoxville, Tenn. (52). 1905. E

Gordon, Clarence Everett, Ph. D., Assistant Professor of Zoology and Geology, Massachusetts Agricultural College, Amherst, Mass. (57). E F

Gordon, Frederick W., M. E., Clardon, Orchard Lane, Ft. Washington, Philadelphia, Pa. (58). D

*Gordon, George Byron, Ph. D., Director of Museum, University of Pennsylvania, Philadelphia, Pa. (63). 1911. H

Gordon, Gustavus Ede, Scientific Director, Walker-Gordon Laboratory Co., Chevy Chase, Md. (50). F

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*Gorham, Frederic Poole, Associate Professor of Biology, Brown University, Providence, R. I. (53). 1906. F K

Gorter, Nathan R., 1 West Biddle St., Baltimore, Md. (60). K

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*Gorton, Frederick Russell, Ph. D., Michigan State Normal College, Ypsilanti, Mich. (58). 1911. B

Goss, Willard L., U. S. Department of Agriculture, Washington, D. C. (57). G

*Goss, Prof. William Freeman Myrick, Dean of College of Engineering, University of Illinois, Urbana, Ill. (39). 1896. D

*Gossard, Harry Arthur, Professor of Entomology, Ohio Agricultural Experiment Station, Wooster, Ohio. (50). 1906. F

Gottlieb, Maurice Barnard, care Merchants and Planters Oil Co., Houston, Texas. (63). C

*Gottschalk, V. H., Professor of Chemistry, Missouri School of Mines, Rolla, Mo. (54). 1909. C

Goucher, John Franklin, M. D., LL. D., President, Goucher College, Baltimore, Md. (50).

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Goulder, Harvey D., 7023 Euclid Ave., Cleveland, Ohio. (63).

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Gowanlock, R. R., 308 Euclid Ave., Cleveland, Ohio. (63).

Gowdy, Robert Clyde, Ph. D., 432 Cherokee St., South Bethlehem, Pa. (63). B

*Grabau, Amadeus William, Sc. D., Professor of Palæontology, Columbia University, New York, N. Y. (54). 1905. E

Graber, Myron Earle, Professor of Physics, Heidelberg University, Tiffin, Ohio. (58). A B D

Graef, Edward L., 58 Court St., Brooklyn, N. Y. (28). F

Graenicher, Sigmund, M. D., Ph. D., Public Museum, Milwaukee, Wis. (63). F

Graff, M. Brayton, care The Proctor & Gamble Co., Ivorydale, Ohio. (58). C

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*Graham, James Chandler, Phillips Academy, Andover, Mass. (50). 1911. C E L

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Graham, William Pratt, Ph. D., Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. (60). D

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Grasby, William Catton, care Western Mail, Perth, West Australia. (58). F

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*Graton, Louis Caryl, 1 Liberty St., New York, N. Y. (62). 1911. E

Grave, Benjamin Harrison, Ph. D., Associate Professor of Zoology, University of Wyoming, Laramie, Wyo. (62). F

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Graves, Prof. Henry S., Chief, U. S. Forest Service, Washington, D. C. (62). G

Graves, W. B., Andover, Mass. (54).

Graves, William B., "Rosewell," Pikesville, Md. (60).

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Gray, R. S., 1921 Telegraph Ave., Oakland, Cal. (58). G

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Graybill, Harry W., Bureau of Animal Industry, U. S. Dept. of Agriculture, Washington, D. C. (58). F

Graydon, Thomas J., 603 Masonic Temple, Chicago, Ill. (58).

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Greeder, Herman, Plattsmouth, Nebraska. (60). C

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*Green, Bernard Richardson, C. E., Superintendent, Buildings and Grounds, Library of Congress, Washington, D. C. (51). 1903. B D

Green, Edgar Moore, M. D., 222 Spring Garden St., Easton, Pa. (36). C G K

Green, Frederick, 12316 Euclid Ave., Cleveland, Ohio. (63).

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Green, Susan Allen, Maryville College, Maryville, Tenn. (63).

Green, William F., University of Toronto, Toronto, Canada. (61). C E

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Greene, Frank Cook, 317 Bank St., New Albany, Ind. (61). E

Greene, George Kennard, 127 West Market St., New Albany, Ind. (38). E

Greene, Levi R., M. E., 132 Federal St., Boston, Mass. (60). D

GREENE, WILLIAM H., N. E. cor. Arch and 16th Sts., Philadelphia, Pa. (54).

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Greenfield, B. Spencer, 1132 Land Title Building, Philadelphia, Pa. (61). D H

[Greenman, Edwin G., M. E., 1764 Fairmount Ave., Cincinnati, Ohio. (60). D

*Greenman, Jesse More, Ph. D., 5731 Madison Ave., Chicago, Ill. (47). 1899. G

*Greenman, Milton J., M. D., Sc. D., Director, Wistar Institute of Anatomy, Philadelphia, Pa. (60). 1911. K

Greenough, Charles, 12 West 44th St., New York, N. Y. (57).

Greenough, John, 59 Wall St., New York, N. Y. (49).

Greenwald, Isidor, Ph. D., 317 East 57th St., New York, N. Y. (63). C

Greenway, James C., M. D., Greenwich, Conn. (53). C K

*Greenwood, George William, Dunbar, Pa. (54). 1906. A

Greer, James Richard, University of Chicago, Chicago, Ill. (57). K

*Gregg, Frank C., M. D., Manor, Texas. (60). K

Gregg, William Henry, M. D., care Mrs. A. M. Fisher, Towanda, Pa. (49). C F

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*Gregory, Herbert Ernest, Ph. D., Professor of Geology, Yale University, New Haven, Conn. (50). 1902. E

Gregory, Louise H., Ph. D., Instructor in Zoology, Barnard College, Columbia University, New York, N. Y. (62). F

Gregory, Minas S., M. D., Bellevue Hospital, New York, N. Y. (57). K

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Griggs, Leland, Ph. D., Dartmouth College, Hanover, N. H. (63). F

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Grimm, Carl Robert, Bridge and Structural Engineer, Standish Arms, 167 Columbia Heights, Brooklyn, N. Y. (51). D

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Grove, John Michael, State Normal School, Millersville, Pa. (63). C F

*Grover, Frederick Orville, Professor of Botany, Oberlin College, Oberlin, Ohio. (50). 1906. G

Groves, Ernest R., Professor of Psychology and Sociology, New Hampshire State College, Durham, N. H. (63). H

Grower, George G., 48 Cottage Ave., Ansonia, Conn. (43). B D

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*Gruener, Hippolyte, Ph. D., Professor of Chemistry, Adelbert College, Cleveland, Ohio. (44). 1898. C

Grunauer, B. P., 11425 Glenwood Ave., Cleveland, Ohio. (63).

Gucker, Frank T., 3420 Hamilton St., Philadelphia, Pa. (54). D

*Gudeman, Edward, Ph. D., 903 Postal Telegraph Building, Chicago, Ill. (57). 1909. C D K

Gudger, Eugene Willis, Ph. D., Professor of Biology, State Normal and Industrial College, Greensboro, N. C. (60). F

Güell, Aurelio R., San Jose, Costa Rica, C. A. (63). C F G

*Guenther, August Ernest, Ph. D., Professor of Physiology, University of Nebraska, Lincoln, Nebr. (57). 1909. K

GUGGENHEIM, WILLIAM, 500 Fifth Ave., New York, N. Y. (57). D

Guiher, Horace B., M. D., Smithfield, Pa. (60). K

Guinzburg, Richard A., 234 Central Park, West, New York, N. Y. (57). I

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Gulick, Addison, Ph. D., Department of Physiology, University of Minnesota, Minneapolis, Minn. (58). F K

Gulick, Louise, Johns Hopkins Medical School, Baltimore, Md. (61). F

*Gulick, Luther Halsey, M. D., Director, Department of Child Hygiene, Russell Sage Foundation, New York, N. Y. (52). 1909. K L

*Gulliver, Frederic Putnam, Ph. D., 30 Huntington Lane, Norwich, Conn. (40). 1900. E L

*Gummere, Prof. Henry Volkmar, Drexel Institute, Philadelphia, Pa. (51). 1906. A B

Gundry, Lewis H., M. D., Relay Station, Md. (60). K

Gunn, Selskar Michael, Massachusetts Institute of Technology, Boston, Mass. (58). I K

*Gunther, Charles Otto, M. E., Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J. (57). 1909. A B D L

Gunthorp, Prof. Horace, 1902 Rhode Island St., Lawrence, Kans. (61). F

Gurd, Fraser Baillie, M. D., 406 Mackay St., Montreal, Canada. (63). K

Gurgenianz, Dr. Gregor,.....(58). C

Gurley, William F. E., 6151 Lexington Ave., Chicago, Ill. (62). E

Gurney, C. H., M. D., Rossville, Ga. (60). K

Gurney, Lawrence Emery, Ph. D., University of Idaho, Moscow, Idaho. (58). B

*Güssow, Hans Theodor, Dominion Botanist, Central Experiment Farm, Ottawa, Canada. (60). 1911. G

Gustafson, Carl F., 4412 Scarritt Ave., Kansas City, Mo. (58). C

*Guthe, Karl Eugen, Ph. D., Professor of Physics, University of Michigan, Ann Arbor, Mich. (45). 1897. B

*Guthrie, Charles Claude, M. D., Ph. D., Professor of Physiology, University of Pittsburg, Grant Boulevard, Pittsburg, Pa. (58). 1909. K

*Guthrie, David Vance, Ph. D., Head, Department of Physics, Louisiana State University, Baton Rouge, La. (60). 1911. B

Guthrie, Rev. Donald, 808 Park Ave., Baltimore, Md. (60). K

Guthrie, Joseph Edward, Instructor in Zoology, Iowa State College, Ames, Iowa. (52). F

Guthrie, William Alvis, M. D., Southern Kentucky Sanatorium, Franklin, Ky. (51). K

*Guttman, Leo Frank, Ph. D., Assistant Professor of Chemistry, Queen's University, Kingston, Ontario, Canada. (58). 1910. C

*Guyer, Michael Frederic, Ph. D., Professor of Zoology, University of Wisconsin, Madison, Wis. (52). 1995. F K

Hachtel, F. W., M. D., 122 West Lafayette Ave., Baltimore, Md. (60). K

Hackett, William H., E. M., 607 North Pearl St., Joplin, Mo. (58). D

Hadley, Artemus N., Box 313, Indianapolis, Ind. (51). D

*Hadley, Philip B., Ph. D., Chief, Division of Biology, Rhode Island Agricultural Experiment Station, Kingston, R. I. (58). 1910. F

*Hadley, Stephen Marshall, Ph. D., Professor of Mathematics and Astronomy, Penn College, Oskaloosa, Iowa. (54). 1906. A

Haecker, Theophilus L., Professor of Dairy Husbandry, University of Minnesota, Minneapolis, Minn. (58). I

Haeseler, P. C., 1295 Fulton Ave., The Bronx, New York, N. Y. (63). C

*Hagar, Stansbury, 48 Wall St., New York, N. Y. (43). 1899. H

*Hagenow, Charles F., Instructor in Mathematics, Armour Institute, Chicago, Ill. (58). 1911. A B

Hager, Daniel S., M. D., 336 North Central Ave., Austin Station, Chicago, Ill. (58). H K

Haggerty, Melvin E., Ph. D., Associate Professor of Psychology, Indiana University, Bloomington, Ind. (62). H

*Hague, Arnold, Sc. D., LL. D., U. S. Geological Survey, Washington, D. C. (26). 1879. E

HAGUE, WILLIAM, 22 William St., New York, N. Y. (57). D E

Hagy, Claude B., Instructor in Physics and Chemistry, Central High School, Philadelphia, Pa. (57). B C

Hahn, Clarence Wilson, 567 West 186th St., New York, N.Y. (57). F K L

Hahn, Fritz Felix, Ph. D., Department of Geology, Columbia University, New York, N. Y. (63). E

Hailman, James D., C. E., 310 South Lang Ave., Pittsburg, Pa. (51). B H

Hailmann, W. N., 10720 Deering Ave., Cleveland, Ohio. (61). H L

Haimbach, Frank, 150 Sumac St., Wissahickon, Philadelphia, Pa. (58). F

Haines, George Clark, Durand, Ill. (58). F G

*Haines, Thomas Harvey, Ph. D., Professor of Psychology, Ohio State University, Columbus, Ohio. (52). 1905. H K L

*Haines, Walter Stanley, M. D., Rush Medical College, Chicago, Ill. (58). 1911. C

*Halberstadt, Baird, Pottsville, Pa. (60). 1911. E

*Hale, Albert C., Ph. D., 487 Halsey St., Brooklyn, N. Y. (29). 1886. B C

Hale, Clarence Frederick, 217 Mitchell St., Ithaca, N. Y. (60). C

Hale, George David, 1059 Lake Ave., Rochester, N. Y. (41).

*Hale, George Ellery, Sc. D., LL. D., Director, Mt. Wilson Observatory, Pasadena, Cal. (37). 1891. A B

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*Hale, William H., Ph. D., Superintendent, Public Baths, 40 First Place, Brooklyn, N. Y. (19). 1874. A B C E F H I

*Hale, William J., Ph. D., Instructor in Chemistry, University of Michigan, Ann Arbor, Mich. (54). 1910. C

*Hall, Arthur Graham, Ph. D., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (60). 1910. A

*Hall, Asaph, Ph. D., U. S. Naval Observatory, Washington, D. C. (38). 1890. A

*Hall, Charles Martin, LL. D., Vice-President, Pittsburg Reduction Co., Niagara Falls, N. Y. (50). 1904. C

*Hall, Edwin Herbert, Ph. D., LL. D., Professor of Physics, Harvard University, Cambridge, Mass. (29). 1881. B

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Hall, Fred J., 4 Benedict Ave., Tarrytown, N. Y. (58).

Hall, Gaylord C., 622 West 137th St., New York, N. Y. (57). D

Hall, H. Porter, M. D., Leominster, Mass. (60). K

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Hall, John Galentine, Professor of Botany, Forestry and Bacteriology, Clemson Agricultural College, Clemson College, S. C. (62). G

Hall, John W., University of Cincinnati, Cincinnati, Ohio. (61). L

Hall, Joseph Underwood, M. D., 216 Autumn St., San José, Cal. (51). K

Hall, Louis Wells, C. E., U. S. Reclamation Service, Fallon, Nevada. (60). D

*Hall, Lyman Beecher, Ph. D., Haverford College, Haverford, Pa. (31). 1884. C

*Hall, Robert William, Ph. D., Professor of Biology, Lehigh University, South Bethlehem, Pa. (50). 1905. F

*Hall, Roy D., Ph. D., 35 Franklin Ave., East Orange, N. J. (58). 1911. C

Hall, Sidney Storrs, M. D., 424 Woodside Ave., Ripon, Wis. (60). K

*Hall, Thomas Cuming, D. D., Professor of Theology, Union Theological Seminary, New York, N. Y. (54). 1906. I

*Hall, William Bonnell, M. D., Vice-Chancellor, University of the South, Sewanee, Tenn. (51). 1909. K

*Hall, William Shafer, Professor of Mining and Graphics, Lafayette College, Easton, Pa. (50). 1906. A D

*Hall, William Thomas, Instructor in Chemistry, Massachusetts Institute of Technology, Boston, Mass. (57). 1910. C

Hall, William T., M. D., 401 Lock St., Tarentum, Pa. (60). K

*Hall, Winfield Scott, M. D., Ph. D., Professor of Physiology, Northwestern University Medical School, Chicago, Ill. (52). 1907. H K L

Hallack, H. Tuthill, M. D., 817 36th St., Oakland, Cal. (51). K.

Halladay, Harry F., M. E., 217 So. Pleasant St., Watertown, N. Y. (63). D

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Hallock, Frank Kirkwood, M. D., Cromwell Hall, Cromwell, Conn. (50) H K

*Hallock, William, Ph. D., Professor of Physics, Columbia University, New York, N. Y. (40). 1893. B E

Hallowell, Clement H., M. D., Norwood, Mass. (63). K

Halsey, Robert Hurtin, M. D., 158 West 58th St., New York, N. Y. (56). K

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Halsted, Arthur, E. E., 60 Wall St., New York, N. Y. (60). D

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Hambleton, Francis H., 912 North Charles St., Baltimore, Md. (60). D

Hambleton, James Chase, Head, Department of Science, East High School Columbus, Ohio. (58). F

Hamburger, Louis P., M. D., 1207 Eutaw Place, Baltimore, Md. (60). K

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Hamilton, George A., E. E., 532 Morris Ave., Elizabeth, N. J. (60). D

Hamilton, Walter M., U. S. Naval Observatory, Washington, D. C. (63). A

Hamilton, Walter R., E. M., 502 Insurance Building, San Francisco, Cal. (60). D

Hamlin, George Herbert, C. E., Orono, Me. (60). D

Hamlin, Wilber Grafton, M. D., 163 State St., Chicago, Ill. (58). K

Hamman, Louis, M. D., 714 Park Ave., Baltimore, Md. (60). K

Hammar, Alfred G., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (58). F

*Hammer, William Joseph, 153 West 46th St., New York, N. Y. (52). 1906. B D

Hammerschlag, Henry A., 38 Breintnall Place, Newark, N. J. (60). C

Hammond, George T., C. E., 156 Berkeley Place, Brooklyn, N. Y. (60). D

Hammond, Howard Spurr, Associate Professor of Biology, Agricultural College, New Mexico. (58). G

*Hammond, John Hays, LL. D., 71 Broadway, New York, N. Y. (50). 1901. D E I L

HAMMOND, MRS. JOHN HAYS, 320 Madison Ave., Lakewood, N. J. (50). H

Hamner, Nicholas C., 1916 Commerce St., Dallas, Tex. (60). C

*HANAMAN, CHARLES EDWARD, Troy, N. Y. (19). 1883. F

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Hance, Anthony M., 2217 DeLancey Place, Philadelphia, Pa. (51). C D G

Hancock, H. Irving, Ferguson-Hancock Laboratories, Blue Point, L. I., N. Y. (56). C K

*Hancock, Harris, Sc. D., Ph. D., Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. (54). 1906. A

Hancock, James Cole, M. D., 135 Cambridge Place, Brooklyn, N. Y. (51). K

Hancock, John A., Box 563, Mankato, Minn. (61).

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Hancock, William James, care Rev. Elliston Perot, Montrose, Pa. (60). L

Hancock, William Jerome, Hollis Court, Queens, N. Y. (58). C

Hand, Hon. Alfred, 505 Jefferson Ave., Scranton, Pa. (62).

Handschin, Charles Hart, Ph. D., Professor of German, Miami University, Oxford, Ohio. (62). L

*Hanford, George Arthur, Ph. D., 131 Coolidge Ave., Syracuse, N. Y. (60). 1911. C

Hanger, G. Wallace W., Ph. D., Chief Clerk, U. S. Bureau of Labor, Washington, D. C. (54). H I L

Hankinson, Thomas Leroy, Assistant in Biology, State Normal School, Charleston, Ill. (53). F L

Hanna, G. Dallas, Nushagak, Alaska. (62).

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Hannay, William M., 207 I St., N. W. Washington, D. C. (62).

Hansen, Rev. James, St. John's University, Collegeville, Minn. (58). F G

*Hansen, Niels Ebbesen, Professor of Horticulture, South Dakota State College of Agriculture and Mechanic Arts, Brookings, S. D. (58). 1911. G

Hanson, Rev. F. V., 556 East 2nd St., Jamestown, N. Y. (61). G

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Hanson, Hans Olaf, Bayshore Terrace, East Elmhurst, L. I., N. Y. (56).

*Hanus, Paul Henry, LL. D., Professor of Education, Harvard University, Cambridge, Mass. (60). 1910. L

Hardenbergh, Henry, Horse Head Inn, Palmerton, Pa. (58). C

*Harder, Edmund Cecil, U. S. Geological Survey, Washington, D. C. (60). 1911. E

*Harding, Everhart Percy, Ph. D., Assistant Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (50). 1901. C

*Harding, Harry Alexis, New York Agricultural Experiment Station, Geneva, N. Y. (48). 1906. G K

Harding, Newton H., 110 No. Pine Ave., Chicago, Ill. (63). H

Hardy, Edward R., 419 West 118th St., New York, N. Y. (60).

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*Hargitt, George Thomas, Ph. D., Instructor in Zoology, Northwestern University, Evanston, Ill. (58). 1911. F

Hargrove, Julian Otho, 1603 O St. N. W., Washington, D. C. (58). C D E

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Harlow, William Page, M. D., Boulder, Colo. (60). K

Harman, Mary Theresa, Indiana University, Bloomington, Ind. (60). F

Harmon, Charles Sumner, 1st National Bank Building, Chicago, Ill. (60).

Harmon, Herbert W., 418 Poplar St., Grove City, Pa. (52). B

Harmon, Judson B., E. E., 729 Diamond Ave., Woodhaven, Long Island, N. Y. (60). D

Harned, Prof. Robey Wentworth, Agricultural College, Miss. (58). F

Harnly, Henry Jacob, Ph. D., Professor of Biology, McPherson College, McPherson, Kans. (50). F G

*Harper, Eugene Howard, Ph. D., 1105 Grant St., Evanston, Ill. (60). 1911. K

*Harper, Henry Winston, M. D., Professor of Chemistry, University of Texas, Austin, Tex. (45). 1899. C K

Harper, James, Jr., 312 West 99th St., New York, N. Y. (57).

Harper, Joseph Nelson, Professor of Agriculture, Clemson Agricultural College, Clemson College, S. C. (58). G

Harper, Prof. Merritt Wesley, Cornell University, Ithaca, N. Y., (63). F

*Harper, Robert Almer, Ph. D., Professor of Botany, Columbia University, New York, N. Y. (54). 1906. G

Harper, Robert Brinton, 5459 East End Boulevard, Chicago, Ill. (58). C

Harper, Robert Henry, M. D., Afton, Okla. (50). F H K

*Harper, Roland M., Ph. D., 555 First Ave., College Point, N. Y. (55). 1909. E G

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Harrah, C. J., P. O. Box 1606, Philadelphia, Pa. (48). H

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Harrington, George T., 1120 Virginia Ave. S. W., Washington, D. C. (62). C G

Harrington, John Lyle, 2458 Forest Ave., Kansas City, Mo. (58). D

Harriot, Caroline, Court Inn, Camden, S. C. (58).

*Harris, Abram Winegardner, LL. D., President, Northwestern University, Evanston, Ill. (40). 1895. C

Harris, Franklin Stewart, Ph. D., Professor of Agronomy, Agricultural Experiment Station, Logan, Utah. (62). G

Harris, Frederick S., ... (50). E

*Harris, Gilbert Dennison, Professor of Geology, Cornell University, Ithaca, N. Y. (58). 1911. E

*Harris, J. Campbell, 119 South 16th St., Philadelphia, Pa. (50). 1907. F

*Harris, James Arthur, Ph. D., Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (52). 1907. F G

Harris, N. W., care Harris Trust and Savings Bank, 117 Monroe St., Chicago, Ill. (58).

*Harris, Norman MacLeod, Assistant Professor of Bacteriology, University of Chicago, Chicago, Ill. (54). 1906. K

Harris, Robert Wayne, M. D., 621 Vincennes St., New Albany, Ind. (51). K

*Harris, Rollin Arthur, Ph. D., U. S. Coast and Geodetic Survey, Washington, D. C. (47). 1899. A B

Harris, Turner M., 1118 Main St., Danville, Va. (61).

*Harris, Uriah Rose, Rear-Admiral, U. S. N., 2139 College Ave., Indianapolis, Ind. (34). 1886. A

Harris, William Denny, 3611 Sansom St., Philadelphia, Pa. (54). **B C D**

Harrison, Bruce Magill, Instructor in Zoology, Iowa State College, Ames, Iowa. (62). **F**

*Harrison, John Burchmore, Director, Government Laboratory, Georgetown, British Guiana. (58). 1910. **C E**

Harrison, John Green, D. D., Professor of Philosophy and Education, Mercer University, Macon, Ga. (62). **H L**

*Harrison, Ross Granville, M. D., Ph. D., Professor of Comparative Anatomy, Yale University, New Haven, Conn. (54). 1906. **F K**

Harrod, Benjamin Morgan, C. E., 1637 Foucher St., New Orleans, La. (60). **D**

Harrold, Charles C., M. D., 416½ Second St., Macon, Ga. (60). **K**

Harsh, S. A., P. O. Box 445, Alhambra, Cal. (60). **C**

Harsha, William M., M. D., 4201 Grand Boulevard, Chicago, Ill. (60). **K**

*Harshberger, John William, Ph. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **G**

*Hart, Charles Arthur, University of Illinois, Urbana, Ill. (51). 1906. **E F**

*Hart, Edward, Ph. D., Professor of Chemistry, Lafayette College, Easton, Pa. (33). 1885. **C**

*Hart, Edwin Bret, Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (58). 1910. **C K**

Hart, George H., 149 East 39th St., New York, N. Y. (58).

*Hart, James Norris, Sc. D., Professor of Mathematics and Astronomy, University of Maine, Orono, Me. (51). 1906. **A L**

Hart, Rev. Samuel, D. D., LL. D., Dean, Berkeley Divinity School, Middletown, Conn. (22). **A**

Hart, William O., 134 Carondelet St., New Orleans, La. (58).

Hart, W. R., Amherst, Mass. (61). **L**

*Harter, Leonard Lee, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

Hartley, Carl P., U. S. Department of Agriculture, Washington, D. C. (57). **G**

*Hartley, Charles P., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (51). 1911. **G**

Hartley, Frank, Principal, Allegany County Academy, Cumberland, Md. (51). **E G**

Hartline, Daniel S., State Normal School, Bloomsburg, Pa. (54). **F G**

Hartman, Frank Alexander, Queen Anne High School, Seattle, Wash. (62). **F**

*Hartman, Leon Wilson, Ph. D., 215 Maple St., Reno, Nevada. (58). 1910. **B**

Hartmann, Francis M., Professor of Physics, Cooper Union, New York, N. Y. (56). **B D**

Hartmann-Kempf, Robert E., Ph. D., care Hartmann & Braun, Frankfort-on-Main, Germany. (54). **B D**

*Hartnagle, Chris. A., State Museum, Albany, N. Y. (61). 1911. E
*Hartness, James, President, Jones & Lamson Machine Co., Springfield, Vt. (51). 1911. D
Hartson, Louis Dunton, Ph. D., Department of Psychology and Education, Grinnell College, Grinnell, Iowa. (63). H L
*Hartwell, Burt Laws, Ph. D., Rhode Island Agricultural Experiment Station, Kingston, R. I. (55). 1911. C G
*Hartwell, George Wilber, Ph. D., Professor of Mathematics, Hamline University, St. Paul, Minn. (58). 1911. A
*Hartwell, John Augustus, M. D., 27 East 63d St., New York, N. Y. (57). 1908. K
Hartz, J. D. Aug., 315 13th St., College Point, N. Y. (43). C E G
Hartzell, Frederick Z., Chautauqua Exper. Vineyard, Fredonia, N. Y. (58). F G
*Hartzell, Joseph Culver, Ph. D., Blue Ash, Ohio. (49). 1911. E
Hartzell, Mabel A., Sinton, Tex. (58). C
*Harvey, Dr. Basil C. H., Assistant Professor of Anatomy, University of Chicago, Chicago, Ill. (58). 1911. F K
Harvey, E. Newton, Guyot Hall, Princeton, N. J. (58). K
*Harvey, Le Roy Harris, Ph. D., State Normal School, Kalamazoo, Mich. (54). 1911. G
Harvey, Nathan Albert, Ph. D., 1029 Ellis St., Ypsilanti, Mich. (52). L
Harvey, P. W., 2199 East 40th St., Cleveland, Ohio. (63).
Harvey, Ruth Sawyer, Ph. D., 3414 Baring St., Philadelphia, Pa. (60). E
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Haseman, Charles, Ph. D., University of Nevada, Reno, Nev. (58). A B D
Haseman, Leonard, Horticultural Building, Columbia, Mo. (60). F
Haserot, Samuel F., 1972 Ford Drive, Cleveland, Ohio. (63).
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*Haskell, Mellen Woodman, Ph. D., Professor of Mathematics, University of California, Berkeley, Cal. (54). 1906. A L
*Haskins, Charles Nelson, Ph. D., 46 South Main St., Hanover, N. H. (60). 1910. A
Haskins, Henri D., Massachusetts Agricultural Experiment Station, Amherst, Mass. (60). C
Haslam, George James, M. D., 77 West 6th St., Fremont, Nebr. (54). K
*Hasselbring, Heinrich, Ph. D., U. S. Dept. of Agriculture, Washington, D. C. (61). 1911. G
Hasslacher, Jacob, 100 William St., New York, N. Y. (50). C
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*Hastings, Edwin George, Associate Professor of Bacteriology, University of Wisconsin, Madison, Wis. (50). 1910. C K
Hastings, Hudson Bridge, Professor of Mechanical Drawing and Surveying, Reed College, Portland, Ore. (63). D

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Hastings, William Walter, Ph. D., Normal School of Physical Education, Battle Creek, Mich. (54). H K

*Hatai, Shinkishi, Ph. D., Wistar Institute, Philadelphia, Pa. (62). 1911. K

*Hatcher, Robert Anthony, M. D., 414 East 26th St., New York, N. Y. (62). 1911. K

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Hathaway, Horatio, Jr., Dedham, Mass. (60).

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Hawes, Joseph H., 74 Bernard St., Dorchester Center, Mass. (58). B D

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Hawkes, Forbes, M. D., 42 East 26th St., New York, N. Y. (60). K

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Hawkins, John Dawson, Colorado Springs, Colo. (50). C D

Hawkins, Layton S., Cortland Normal School, Cortland, N. Y. (57). G L

Hawkins, Lon A., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). G

*Haworth, Erasmus, Ph. D., Professor of Geology, University of Kansas, Lawrence, Kans. (58). 1910. E

Hawxhurst, Robert, Jr., C. E., General Manager, Poderosa Mining Co., Antofagasta, Chile, S. A. (53). D

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Hayden, Ada, Instructor in Botany, Iowa State College, Ames, Iowa. (62). G

Hayden, Horace Edwin, Jr., College Station, Texas. (58). F G

Hayden, William B., Catskill, N. Y. (57).

*Hayes, Charles Willard, Ph. D., LL. D., Apartado 150, Tampico, Tamps, Mexico. (51). 1905. E

*Hayes, Ellen, Professor of Astronomy, Wellesley College, Wellesley, Mass. (52). 1905. A

Hayes, F. Eugene, Jr., C. E., 1504 South First St., Louisville, Ky. (60). D

Hayes, George Samuel, C. E., 1123 Broadway, New York, N. Y. (60). D

Hayes, Hammond Vinton, Ph. D., 6 Channing St., Cambridge, Mass. (63). **B**

*Hayes, Herbert Kendall, Bussey Institution, Forest Hills, Boston, Mass. (61). 1911. **G**

Hayes, Joel Addison, 832 Cascade Ave., Colorado Springs, Colo. (51).

*Hayford, John Fillmore, C. E., Director, College of Engineering, Northwestern University, Evanston, Ill. (46). 1898. **A B D**

Hayhurst, Paul, Professor of Entomology, University of Arkansas, Fayetteville, Ark. (58). **F**

*Haynes, Arthur Edwin, Sc. D., Professor of Engineering Mathematics, University of Minnesota, Minneapolis, Minn. (45). 1909. **A D L**

Haynes, Eli Stuart, Laws Observatory, University of Missouri, Columbia, Mo. (60). **A**

*Haynes, Prof. Henry Williamson, 239 Beacon St., Boston, Mass. (28). 1884. **H**

Haynes, Miss Julia Anna, State Normal School, Hyannis, Mass. (47). **F G K**

Haynes, Winthrop Perrin, 74 Beacon St., Hyde Park, Mass. (60).

Hays, B. Frank, 66 Pierrepont St., Brooklyn, N. Y. (49).

Hays, Charles P., R. F. D. No. 1, Amelia, Ohio. (62).

Hays, John Coffee, E. E., Visalia, Cal. (58). **D**

*Hays, Hon. Willet M., Assistant Secretary, U. S. Department of Agriculture, Washington, D. C. (45). 1901. **G I L**

Hays, William Henry, Superintendent, Public Schools, Lock Box 323, Columbia, Mo. (58). **A**

Hayward, Robert Francis, C. E., 319 Pender St. West., Vancouver, B. C. (60). **D**

*Hazard, Daniel Lyman, U. S. Coast and Geodetic Survey, Washington, D. C. (48). 1910. **B**

Hazard, Frederic Seymour, Asst. Secretary, A. A. A. S., Smithsonian Institution, Washington, D. C. (62). **C F K**

*Hazard, Hon. Rowland Gibson, Peace Dale, R. I. (50). 1906. **C**

*Hazen, Tracy Elliot, Ph. D., Barnard College, Columbia University, New York, N. Y. (50). 1902. **G**

Headlee, Thomas J., Ph. D., Kansas State Agricultural College, Manhattan, Kans. (52). **F**

*Heald, Frederick DeForest, Ph. D., University of Texas, Austin, Tex. (50). 1904. **G**

Heaps, William James, 310 West Hoffman St., Baltimore, Md. (60). **C**

Hearne, Robert Joseph, M. E., 12 Wooster St., New York, N. Y. (58). **D**

Heath, Prof. Eugene S., 2926 Q St., Lincoln, Nebr. (62). **F**

Hebbard, Ellery Cola, M. D., 122 Huntington Ave., Boston, Mass. (51). **D K**

Hebert, P., M. D., 313 Stephenson Ave., Iron Mountain, Mich. (60). **K**

*Hedgcock, George Grant, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1904. **G**

Hedge, Frederic H., 440 Boylston St., Brookline, Mass. (28). F H

*Hedrick, Earle Raymond, Professor of Mathematics, University of Missouri, Columbia, Mo. (58). 1908. A

*Hedrick, Henry Benjamin, Yale University, New Haven, Conn. (40). 1896. A

*Hedrick, Ulyssus Prentiss, Geneva, N. Y. (60). 1911. G

Hedrick, William A., Ph. D., McKinley Manual Training School, Washington, D. C. (60). L

Heermance, E. Van Ness, President, Virginia Concrete and Engineering Company, Rocky Mount, Va. (60). C D E

Heffron, John L., M. D., 904 James St., Syracuse, N. Y. (60). K

Hegner, Robert W., Ph. D., Asst. Professor of Zoology, University of Michigan, Ann Arbor, Mich. (63). F

Heidemann, Otto, 1333 Park Road, Washington, D. C. (58). F

Heimann, Julius, 315 West 105th St., New York, N. Y. (57).

*Heinemann, Paul Gustav, Ph. D., Assistant in Bacteriology, University of Chicago, Chicago, Ill. (58). 1911. F

Heiney, William M., ... (58). L

Heinze, Arthur P., Vice-President, United Copper Co., 220 Madison Ave., New York, N. Y. (57).

Heisler, Charles L., M. E., North Main St., St. Mary's, Ohio. (51). D

*Heisler, John Clement, M. D., 3829 Walnut St., Philadelphia, Pa. (60). 1911. K

*Hektoen, Ludvig, M. D., Professor of Pathology, University of Chicago, Chicago, Ill. (52). 1906. K

Helland, John W., M. D., Maynard, Minn. (60). K

Hellebrandt, F. J., 2327 South Albany Ave., Chicago, Ill. (58).

Heller, Edmund, U. S. National Museum, Washington, D. C. (62). F

Hemenway, Miss Clara, 242 Beacon St., Boston, Mass. (61).

Hemingway, Frank, 42 Edgemont Road, Upper Montclair, N. J. (60). C

*Hemmeter, John Cohn, M. D., Ph. D., LL. D., 739 University Parkway, Roland Park, Baltimore, Md. (51). 1906. K L

Hempelmann, Walter L., 2914 Dodier St., St. Louis, Mo. (60). C

*Henchman, Miss Annie Parker, 10 Francis Ave., Cambridge, Mass. (54). 1906. F

Henderson, C. Hanford, Ph. D., Cambridge, Mass. (61). E I L

Henderson, George Dallas, M.D., 276 Maple St., Holyoke, Mass. (60). K

Henderson, John Brooks, Jr., 16th St. above Florida Ave., Washington, D. C. (60).

*Henderson, Prof. Junius, Curator of the Museum, University of Colorado, Boulder, Colo. (50). 1906. E F

Henderson, Lawrence Joseph, M. D., 67 Sparks St., Cambridge, Mass. (62). C F

Henderson, Royal L., 623 Jefferson Ave., Richmond Hill, N. Y. (57). F G

*Henderson, Dr. Velyien Ewart, University of Toronto, Toronto, Canada. (60). 1911. K

*Henderson, William Edwards, Ph. D.. Associate Professor of Chemistry, Ohio State University, Columbus, Ohio. (50). 1901. C

*Henderson, Yandell, Ph. D., Assistant Professor of Physiology, Yale University Medical School, New Haven, Conn. (57). 1908. K

Hendren, Linville L., Ph. D., Professor of Physics, University of Georgia, Athens, Ga. (63). B

Hendrick, Ellwood, 139 East 40th St., New York, N. Y. (57). C

Henius, Max, Ph. D., 1135 Fullerton Ave., Chicago, Ill. (52). C L

Henkel, Mary Isabel, 174 27th St., Milwaukee, Wis. (60). C

*Henmon, Vivian A. C., Ph. D., 21 Mendota Court, Madison, Wis. (54). 1906. H L

Hennen, Ray Vernon, C. E., P. O. Box 386, Morgantown, W. Va. (50). D

*Henrich, Carl, E. M., Noble, Ill. (50). 1911. A E I

*Henricksen, Henrick Christian, Port-of-Spain, Trinidad, B. W. I. (60). 1911. C F G

Henriques, Henry A., M. D., 170 South St., Morristown, N. J. (60). K

*Henry, Alfred Judson, Professor of Meteorology, Mt. Weather Observatory, Bluemont, Va. (49). 1901. A B

Henry, Charles C., M. D., 56 Clark St., Brooklyn, N. Y. (43). K

Henry, John P., M. D., 329 West 58th St., New York, N. Y. (60). K

Henry, Stewart L., M. D., 908 South Carrollton Ave., Station B, New Orleans, La. (55). G K

Henshaw, Henry Wetherbee, Chief, Biological Survey, U. S. Department of Agriculture, Washington, D. C (55). F H

Henslin, Aaron E., M. D., Le Roy, Minn. (60). K

Herb, Arthur, M. E., 1459 St. James Court, Louisville, Ky. (58). D

Hering, Carl, M. E., Sc. D., 929 Chestnut St., Philadelphia, Pa. (62). D

*Hering, Daniel Webster, Ph. D., LL. D., Professor of Physics, New York University, New York, N. Y. (50). 1906. B D

*Hering, Rudolph, 170 Broadway, New York, N. Y. (33). 1885. D E I

Hermann, Adam, American Museum of Natural History, New York, N. Y. (63). F

Hermann, Ferdinand, 20 East 80th St., New York, N. Y. (57).

Herms, Edward, 57 Vernon Place, Buffalo, N. Y. (58). C

Herms, William Brodbeck, Assistant Professor of Entomology, University of California, Berkeley, Cal. (57). F

Hero, Ann, Professor of Chemistry, Tulane University, New Orleans, La. (62). C

Herr, Hiero B., C. E., M. E., Monadnock Block, Chicago, Ill. (50). D E

*Herrick, Charles Judson, Ph. D., Professor of Neurology, University of Chicago, Chicago, Ill. (49). 1901. F

*Herrick, Francis Hobart, Sc. D., Ph. D., Professor of Biology, Adelbert College, Cleveland, Ohio. (52). 1905. F

Herrick, Prof. Glenn Washington, Cornell University, Ithaca, N. Y. (50). F

*Herrick, Joseph Cawdell, Ph. D., Professor of Biology, St. Joseph's Seminary, Yonkers, N. Y. (56). 1911. H K

*Herrmann, Richard, 2419 Couler Ave., Dubuque, Iowa. (50). 1902. E F H

Herron, William Harrison, U. S. Geological Survey, Washington, D. C. (52). D E I

Hersam, Prof. Ernest A., University of California, Berkeley, Cal. (60). D

Hersey, Henry B., U. S. Weather Bureau, Milwaukee, Wis. (62). A B

*Herty, Charles Holmes, Ph. D., University of North Carolina, Chapel Hill, N. C. (42). 1895. C

*Hertzler, Arthur Emanuel, M. D., Ph. D., 402 Argyle Building, Kansas City, Mo. (58). 1911. K

Hertzog, P. H., Peddie Institute, Hightstown, N. J. (57). F

*Hervey, Rev. Alpheus Baker, Ph. D., Bath, Me. (22). 1879. A G

Herzig, Charles S., E. M., ... (60). D

Herzog, Felix Benedict, Ph. D., President, Herzog Teleseme Co., 137 West 23d St., New York, N. Y. (50). D

*Herzog, Maximilian, M. D., Suite 1604, Mallers Building, cor. Madison and Wabash Aves., Chicago, Ill. (58). 1909. H K

Herzstein, Morris, M. D., 1404 Sutter St., San Francisco, Cal. (52). K

Hess, Emory Le Roy, 4800 West Chicago Ave., Chicago, Ill. (60).

Hess, Frederick Andrew, M. D., Ph. D., 247 East Division St., Chicago, Ill. (58). K

Hess, Henry W., The Libbey Glass Co., Toledo, Ohio. (60). C

Hess, Selmar, Publisher, 151 West 25th St., New York, N. Y. (53). I K L

*Hesse, Bernhard Conrad, Ph. D., 90 William St., New York, N. Y. (60). 1910. C

*Hessler, John Charles, Ph. D., 1398 West Macon St., Decatur, Ill. (58). 1910. C

*Hessler, Robert, M. D., Logansport, Ind. (54). 1909. G H K

Heuel, Emil, M. D., 144 West 79th St., New York, N. Y. (60). K

*Heuser, George Julius, M. D., Johns Hopkins Hospital, Baltimore, Md. (60). 1911. K

Heurich, Christian, 1307 New Hampshire Ave., Washington, D. C. (62). C

Hewerdine, Thomas Sloan, P. O. Box 161, Fisher, Ill. (58). A B C D

Hewett, Donnel Foster, E. M., care U. S. Geological Survey, Washington, D. C. (62). C

*Hewett, Edgar L., Director, School of American Archaeology, Santa Fe, N. M. (50). 1910. H

Hewins, Nellie P., Clermont Terrace, Elmhurst, L. I., N. Y. (60). K

Hewitt, C. Gordon, Central Experiment Farm, Ottawa, Canada. (60). F

Hewitt, Charles Elbert, Professor of Electrical Engineering, New Hampshire College, Durham, N. H. (62). D

Hewitt, Joseph H., M. D., 2145 No. Halsted St., Chicago, Ill. (60). **K**

Hewitt, Thomas Edwin, E. M., 331 Atwood St., Pittsburg, Pa. (56). **C D**

Hewlett, Albion Walter, M. D., 1835 Cambridge Road, Ann Arbor, Mich. (63). **K**

*Hewson, Addinell, M. D., 2120 Spruce St., Philadelphia, Pa. (60). 1911. **K**

HEXAMER, C. JOHN, C. E., 419 Walnut St., Philadelphia, Pa. (33). **B C**

Heyer, William D., 523 South Broad St., Elizabeth, N. J. (33). **B D L**

*Heyl, Paul Renno, Ph. D., care Commercial Research Co., Tuckahoe, N. Y. (54). 1911. **B**

*Hibbard, Rufus P., Ph. D., Michigan Agricultural College, East Lansing, Mich. (54). 1911. **G K**

*Hice, Richard R., Beaver, Pa. (41). 1906. **A B C E**

Hick, L. A., M. D., Delta, Colo. (60). **K**

Hicks, Edwin Francis, 4837 Fairmount Ave., Philadelphia, Pa. (58). **C**

Hidershide, George N., M. D., Arcadia, Wis. (58). **K**

Higbee, Frederick Goodson, 104 Engineering Hall, Iowa City, Iowa. (58). **D**

Higbee, George G., E. M., Murray Iron Works Co., Burlington, Iowa. (60). **D**

*Higdon, John E., Teacher of Mathematics, Shortridge High School, Indianapolis, Ind. (54). 1906. **A B D K**

Higgins, Daniel Franklin, Anglo-Korean School, Songdo, Korea. (61). **E**

*Higgins, J. Edgar, Hawaiian Experiment Station, Box 562, Honolulu, Hawaii. (57). 1911. **G**

Higgins, James Haydn, M. D., Marstons Mills, Mass. (60). **K**

Higgins, Lafayette, C. E., Iowa State Board of Health, Des Moines, Iowa. (51). **C D**

Higginson, Henry L., care Lee Higginson and Company, 44 State St., Boston, Mass. (60).

Hilbert, Alfred, E. E., 631 46th St., Brooklyn, N. Y. (60). **D**

*Hildebrandt, Theophil Henry, Ph. D., 513 Elm St., Ann Arbor, Mich. (58). 1911. **A**

*Hilditch, Warren W., Ph. D., Suite 80, 50 East 41st St., New York, N. Y. 1911. **C**

Hileman, Allen Irving, R. F. D. 2, Paxton, Ill. (61). **G L**

*Hilgard, Eugene Waldemar, Ph. D., Dean and Director, College of Agriculture, University of California, Berkeley, Cal. (11). 1874. **B C E**

Hill, Albert Frederick, 19 Conant Hall, Cambridge, Mass. (61). **G**

*Hill, Albert Ross, Ph. D., President, University of Missouri, Columbia, Mo. (58). 1910. **H L**

*Hill, Arthur Edward, Ph. D., 66 Clinton Place, Bronx, New York, N. Y. (58). 1911. **C**

*Hill, David Spence, Ph. D., Tulane University, New Orleans, La. (60). 1911. H

*Hill, Eben Clayton, M. D., U. S. A., Fort Porter, Buffalo, N. Y. (54). 1906. K

*Hill, Edwin Allston, Ph. D., Assistant Professor of Chemistry, George Washington University, Washington, D. C. (52). 1911. C D

Hill, Herbert M., University of Buffalo, Buffalo, N. Y. (58). B C

*Hill, John Edward, Sc. D., Professor of Civil Engineering, Brown University, Providence, R. I. (44). 1897. D

Hill, Joseph H., D. D., LL. D., President, Kansas State Normal Schools, Emporia, Kan. (61). L

*Hill, Lewis D., Normal College, 68th St. and Park Ave., New York, N. Y. (58). 1910. B C

*Hill, Robert Thomas, Trinity Building, New York, N. Y. (36). 1889. E

Hill, William K., Carthage College, Carthage, Ill. (54). G

*Hillebrand, William Francis, Ph. D., Bureau of Standards, Washington, D.C. (51). 1903. C

*Hillegas, Milo B., Teachers College, Columbia University, New York, N. Y. (62). 1912. L

Hilliard, Curtis Morrison, Instructor in Biology, College of the City of N. Y., New York, N. Y. (62). F

Hills, Alfred Kimball, M. D., 108 Fulton St., New York, N. Y. (57). K

Hills, Joseph Lawrence, Sc. D., University of Vermont, Burlington, Vt. (63). G

Hills, Richard C., Ernest and Cramner Building, Denver, Colo. (62). E

HILLS, PROFESSOR THOMAS MCDOUGALL, Geological Department, Ohio State University, Columbus, Ohio. (61). E

Hilpert, Willis S., Ph. D., 543 East 34th St., Chicago, Ill. (58). C K

*Hilprecht, Hermann Vollrat, Ph. D., D. D., LL. D., Hailer bei Meerholz, Hessen, Nassau, Germany. (54). 1906. H

Hiltebeitel, Adam Miller, Ph. D., Trappe, Pa. (58). A

Hilton, David Clark, M. D., 1240 O St., Lincoln, Nebr. (58). F K

*Hilton, William Atwood, Ph. D., 113 Church St., S. E., Minneapolis, Minn. (49). 1906. F H K

*Himes, Charles Francis, Ph. D., LL. D., Carlisle, Pa. (29). 1882. B C

Himmel, Dr. Joseph, S. J., Georgetown University, Washington, D. C. (62).

*Himowich, Adolph A., M. D., 1913 Madison Ave., New York, N. Y. (51). 1906. A K

Hinchman, Mrs. Lydia S., 3635 Chestnut St., Philadelphia, Pa. (57). A E

Hinckley, Edwin Smith, Professor of Geology, Brigham Young University, Provo, Utah. (62). E

Hindle, Edward, Quick Laboratory, Cambridge, England. (61). F

Hinds, Franklin Allen, C. E., Watertown, N. Y. (57). A D E

Hinds, Henry, U. S. Geological Survey, Washington, D. C. (62). E

*Hinds, John I. D., Ph. D., LL. D., Cumberland University, Lebanon, Tenn. (55). 1908. C

*Hinds, Warren Elmer, Ph. D., Professor of Entomology, Alabama Polytechnic Institute, Auburn, Ala. (54). 1906. F L

Hindshaw, Henry Havelock,.....(52). E

*Hine, James Stewart, Associate Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (48). 1904. F

*Hines, Murray Arnold, Ph. D., 2320 Orrington Ave., Evanston, Ill. (60). 1911. C

Hinkel, Frank Whitehill, M. D., 581 Delaware Ave., Buffalo, N. Y. (60). K

Hinkins, John Edward, M. D., 1467 East 53rd St., Chicago, Ill. (58). C

Hinkle, Beatrice M., M. D., Manila, P. I. (60). K

Hinman, Jack Jones, Jr., 1021 Central Ave., Indianapolis, Ind. (62). C

*Hinrichs, Gustavus Detlef, M. D., Professor of Chemistry, 4106 Shenandoah Ave., St. Louis, Mo. (17). 1874. B C

*Hinsdale, Wilbert B., M. D., University of Michigan, Ann Arbor, Mich. (54). 1909. H K

Hinton, George B.,.....(58). C

Hinton, William Augustus, M. D., 1560 Cambridge St., Cambridge, Mass. (60). C K

Hintze, Ferdinand F., Jr., Dept. of Paleontology, Columbia University, New York, N. Y. (63). E

*Hirschfelder, Arthur Douglass, M. D., 2245 Linden Ave., Baltimore, Md. (60). 1910. K

*Hirschfelder, Joseph Oakland, M. D., Professor of Clinical Medicine, Cooper Medical College, San Francisco, Cal. (51). 1909. K

Hirshberg, Leonard Keene, M. D., 1937 Madison Ave., Baltimore, Md. (60). K

Hirshfeld, Clarence Floyd, Professor of Power Engineering, Cornell University, Ithaca, N. Y. (54). B C D

*Hiss, Philip Hanson, M. D., 437 West 59th St., New York, N. Y. (49). 1903. F K

Hitch, Miss Lola S., Palmyra, N. J. (61).

*Hitchcock, Albert Spear, Division of Agrostology, U. S. Department of Agriculture, Washington, D. C. (39). 1892. G

Hitchcock, Miss Caroline Judson, 539 Broad St., Meriden, Conn. (50). B E G

*HITCHCOCK, CHARLES HENRY, Ph. D., LL. D., Honolulu, Hawaii. (11). 1874. E

*Hitchcock, Fanny R. M., Ph. D., 4038 Walnut St., Philadelphia, Pa. (35). 1906. F

*Hitchcock, Hon. Frank Harris, Postmaster-General, Metropolitan Club, Washington, D. C. (49). 1901. I

*Hitchcock, Prof. Romyn, 214 No. Aurora St., Ithaca, N. Y. (47). 1898. C I

*Hitchens, A. Parker, M. D., Bacteriologist, Glen Olden, Pa. (58). 1909. K

*Hite, Prof. Bert Holmes, Morgantown, W. Va. (60). 1911. C

Hite, J. Ewing, Director, State College of Agriculture and Mechanic Arts, Athens, Ga. (62). G

Hite, Lewis Field, 42 Arlington St., Cambridge, Mass. (58). H L

*Hitzrot, James Morley, M. D., 126 East 37th St., New York, N. Y. (57). 1909. K

*Hoad, William Christian, Associate Professor of Civil Engineering, University of Kansas, Lawrence, Kans. (54). 1912. D

*Hoadley, George Arthur, Sc. D., Professor of Physics, Swarthmore College, Swarthmore, Pa. (40). 1900. B

Hoagland, Ralph, Professor of Soils, University of Minnesota, Minneapolis, Minn. (53). C

*Hobbs, William Herbert, Ph. D., Professor of Geology, University of Michigan, Ann Arbor, Mich. (41). 1893. E

Hobby, C. M., M. D., Iowa City, Iowa. (51). K

*Hoch, August, M. D., Psychiatric Institute, Ward's Island, New York, N. Y. (60). 1911. K

*Hodge, Clifton Fremont, Ph. D., Professor of Biology, Clark University, Worcester, Mass. (58). 1910. F G K L

*Hodge, Frederick Humbert, Professor of Mathematics, Franklin College, Franklin, Ind. (50). 1908. A

*Hodge, Frederick Webb, Bureau of American Ethnology, Smithsonian Institution, Washington, D. C. (52). 1904. H

Hodge, James M., Big Stone Gap, Va. (29). D E

Hodges, Robert Shattuck, Chemist, Alabama Geological Survey, University, Ala. (54). C E

*Hodgkins, Howard Lincoln, Ph. D., George Washington University, Washington, D. C. (40). 1896. A B D

Hodgkins, William Candler, U. S. Coast and Geodetic Survey, Washington, D. C. (52). A D E

Hoe, Mrs. R., Jr., 180 W. 59th St., New York, N. Y. (36).

Hoe, Mrs. Richard M., 11 East 71st St., New York, N. Y. (36). L

Hoen, Albert Berthold, Dixon Park, Mt. Washington, Md. (60). E

Hoes, Roswell Randall, Chaplain, U. S. N., Navy Yard, Norfolk, Va. (62).

Hoff, Olaf, C. E., 149 Broadway, New York, N. Y. (57). D

Hoffman, Prof. Arthur Henry, 703 Lincoln Ave., Ames, Iowa. (58). B D L

Hoffman, Christian B., Enterprise, Kansas. (50). D H

*Hoffman, Frank Sargent, Ph. D., Professor of Philosophy, Union University, Schenectady, N. Y. (52). 1906. F

Hoffman, George Edgar, "Longcliff," Logansport, Ind. (57). K

*Hoffman, Samuel Verplanck, Morristown, N. J. (52). 1906. A D

Hoffmann, Conrad, Experiment Station, University of Wisconsin, Madison, Wis. (57). K

*HOFFMANN, DR. FRIEDRICH, Charlottenburg, Kant St. 125, Berlin, Germany. (28). 1881. C F

Hofstetter, George A., M. D., 108 South Beaton St., Corsicana, Tex. (58). K

Hogan, James Joseph, M. D., University of Cincinnati, Cincinnati, Ohio. (63). K

Hogan, Mrs. Louise E., Lock Box 337, Philadelphia, Pa. (52). B D N I K L

Hogg, Elton, Saratoga, Cal. (62). C E

*Hogrefe, Louis, care Anglo-American Pharm. Co., 90 Beekman St., New York, N. Y. (58). 1911. A B C D E

Hogue, Mary J., Ph., D., 503 No. High St., West Chester, Pa. (62). F

Hohf, Julian A., M. D., Tripp, S. D. (60). K

Holbrook, Percy, 185 Madison Ave., New York, N. Y. (51). D

Holden, Edwin Chapin, Professor of Mining Engineering, University of Wisconsin, Madison, Wis. (62). D

HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio. (35).

*Holden, Roy Jay, E. M., Blacksburg, Va. (60). 1911. E

Holder, Francis J., Ph. D., Head, Department of Mathematics and Physics, Buchtel College, Akron, Ohio. (61). A B

Holding, Arthur, M. D., 98 Chestnut St., Albany, N. Y. (58). K

*Holferty, George Mellinger, Ph. D., Instructor in Botany, Central High School, St. Louis, Mo. (50). 1905. E G

*Holgate, Thomas Franklin, Ph. D., LL. D., 617 Library St., Evanston, Ill. (58). 1910. A L

Holladay, Lewis Littlepage, Professor of Electrical Engineering, Highland Park College of Engineering, Des Moines, Iowa. (58). D

Holland, Arthur L., M. D., 134 West 81st St., New York, N. Y. (60). K

Holland, Robert A., M. D., Calais, Me. (60). K

*Holland, William Jacob, Sc. D., Ph. D., LL. D., Director, Carnegie Museum, Pittsburg, Pa. (37). 1896. E F G H L

*Holland, William West, Ph. D., 1122 Madison Ave., Baltimore, Md. (58). 1911. C

*Hollick, Charles Arthur, Ph. D., Curator, Department of Fossil Botany, New York Botanical Garden, New York, N. Y. (31). 1892. E G

*Hollingworth, Harry Levi, Ph. D., Columbia University, New York, N. Y. (61). 1911. H

Hollinshead, Warren H., Sc. D., Wingrove Ave., Nashville, Tenn. (37).

*Hollis, Frederic S., Ph. D., Indiana University School of Medicine, Indianapolis, Ind. (60). 1911. C

Hollister, Frank Canfield, M. D., 264 West 77th St., New York, N. Y. (57). K

*Hollister, N., U. S. National Museum, Washington, D. C. (57). 1911. F

Holloway, Thomas E., U. S. Dept. of Agriculture, Audubon Park, New Orleans, La. (62). F

Holman, Carl, Presque Isle, Me. (61). F

Holman, Carl J., M. D., Mankato, Minn. (60). K

Holman, Richard Morris, care College of Agriculture, Los Banos, La Laguna, P. I. (55). G

Holman, William Frank, Ph. D., Instructor in Physics, University of Minn., Minneapolis, Minn. (62). B

Holmes, A. Mansfield, M. D., ...(50). F K

Holmes, August, University of Nevada, Reno, Nev. (63).

Holmes, Ella A., 4 John St., Jamaica, N. Y. (60). F

Holmes, Harriet F., 5439 Cornell Ave., Chicago, Ill. (62). K

*Holmes, Joseph Austin, Sc. D., LL. D., Director, U. S. Bureau of Mines, Washington, D. C. (33). 1887. D E

Holmes, Manfred James, Professor of Psychology, Illinois State Normal University, Normal, Ill. (58). H L

Holmes, Mary E., Mt. Holyoke College, South Hadley, Mass. (60). C

Holmes, Miss Mary S., 147 Manheim St., Philadelphia, Pa. (50). E

*Holmes, Samuel Jackson, Ph. D., Associate Professor of Zoology, University of California, Berkeley, Cal. (51). 1904. F

*Holmes, Prof. William Henry, Head Curator of Anthropology, U. S. National Museum, Washington, D. C. (30). 1883. H

Holmes, Willis B., Ph. D., Fremont, Ohio. (62). C

Holsinger, S. J., Sunshine Station, Meteor, Ariz. (58). A H

Holstein, George Wolf, 16 Hesketh St., Chevy Chase, Md. (28). E H

Holt, Byron W., 54 Broad St., New York, N. Y. (60). I

Holt, Erastus Eugene, M. D., 723 Congress St., Portland, Me. (54). I K L

*Holt, Henry, 34 West 33d St., New York, N. Y. (29). 1908.. I

Holt, Joseph H., M. D., Sherman, Tex. (60). K

Holtgrewe, Frederick W., 1601 Blair Ave., St. Louis, Mo. (60). K

*Holton, Henry D., M. D., Brattleboro, Vt. (44). 1909. I

*Holtz, Frederick Leopold, 1421 President St., Brooklyn, N. Y. (58). 1911. E F G L

*Holzinger, John M., Professor of Botany, State Normal School, Winona, Minn. (54). 1909. G

Homans, John, M. D., 164 Beacon St., Boston, Mass. (60).. K

Homburg, Frederick, Teacher of Chemistry, Woodward High School, Cincinnati, Ohio. (51). C E

Homer, Charles S., 416 Fourth Ave., New York, N. Y. (29).

Homer, Harry L., M. D., 714 Park Ave., Baltimore, Md. (60). K

Honey, William, E. E., Tequisquiapan, Queretaro, Mexico. (58). D

*Hood, Ozni Porter, Heidelberg Cottage No. 4, Braddock Ave. and Waverly St., Pittsburgh, Pa. (51). 1906. D

Hood, William, Room 1136, James Flood Building, San Francisco, Cal. (35). D

Hooker, Charles Worcester, Agricultural Experiment Station, Mayaguez, Porto Rico. (60). F

*Hooker, Davenport, 133 Canner St., New Haven, Conn. (52). 1911. F K

*Hooker, Donald Russell, M. D., "Cedar Lawn," Homeland Ave., Baltimore, Md. (50). 1907. K

Hooker, Samuel Cox, Ph. D., 82 Remsen St., Brooklyn, N. Y. (62). C

Hooker, William A., Office of Experiment Stations, U. S. Dept. of Agriculture, Washington, D. C. (54). F

*Hooper, Everett D., M. D., Ph. D., Warren Chambers, Boston, Mass. (57). 1911. C K

Hooper, Prof. Franklin W., Curator, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y. (43). E F

*Hooper, William Leslie, Ph. D., Tufts College, Mass. (60). 1911. E

Hoopes, Homer E., 302 South Orange St., Media, Pa. (52). E H

Hoover, C. F., 1903 East 75th St., Cleveland, Ohio. (63).

Hoover, Herbert C., Red House, Hornton St., London, England. (51). E

Hoover, Mrs. Lou Henry, Red House, Hornton St., London, England. (51). E

Hope-Doeg, Harold, E. M., Creston-Colorado Co., Torres, Sonora, Mexico. (60). D

Hopeman, Harry, M. D., Minden, Nebr. (51). G K

*Hopkins, Andrew Delmar, Ph. D., U. S. Department of Agriculture, Washington, D. C. (42). 1899. F

Hopkins, Anderson Hoyt, R. F. D. No. 7, Niles, Mich. (52).

*Hopkins, Arthur John, Ph. D., Amherst College, Amherst, Mass. (44). 1900. C

*Hopkins, B. Smith, Ph. D., Waukesha, Wis. (60). 1911. C

Hopkins, Ben. F., 830 Society for Savings Building, Cleveland, Ohio. (63).

*Hopkins, Cyril George, Ph. D., Chief in Agronomy and Chemistry, University of Illinois, 1001 South Wright St., Champaign, Ill. (57). 1909. C G

Hopkins, E. Guy, Professor of Clinical Pathology, University College of Medicine, Richmond, Va. (63). K

Hopkins, George Bates, 52 Broadway, New York, N. Y. (50). I

*Hopkins, Grant Sherman, Sc. D., Cornell University, Ithaca, N. Y. (41). 1900. F

Hopkins, Lewis S., 601 Beatty St., Pittsburg, Pa. (62).

Hopkins, Louis J., Winnetka, Ill. (58). H I

Hopkins, Milton J., M. D., 3558 Lindell Boulevard, St. Louis, Mo. (60). K

*Hopkins, Rupert Henry, 103 College Ave., West New Brighton, N. Y. (54). 1911. D

*Hopkins, Samuel Augustus, M. D., 235 Marlborough St., Boston, Mass. (54). 1911. K

*Hopkins, Thomas Cramer, Ph. D., Professor of Geology, Syracuse University, Syracuse, N. Y. (38). 1898. E

Hopkins, Thomas S., 801 Hibbs Building, Washington, D. C. (62).

Hord, A. C., 7407 Euclid Ave., Cleveland, Ohio. (63).

*Hore, Reginald Edwin, Michigan College of Mines, Houghton, Mich. (58). 1911. C E

*Hormell, William Garfield, Ph. D., Ohio Wesleyan University, Delaware, Ohio. (48). 1911. D

*Horn, David Wilbur, Ph. D., Lock Box 12, Bryn Mawr Pa. (58). 1911. C

Horn, Frank Churchill, C. E., 516 Empire Bldg., Boise, Idaho. (58). D E

Horn, Wilbur F., Carlisle, Pa. (60). C

Hornblower, Henry, 60 Congress St., Boston, Mass. (60).

Hornbogen, Alfred W., M. D., Marquette, Mich. (60). K

*Horne, Herman Harrell, Ph. D., Leonia, N. J. (58). 1910. H L

Horne, Perley L., President, Kamehameha Schools, Honolulu, Hawaii. (58). I L

Horne, William Titus, Assistant Professor of Plant Pathology, University of California, Berkeley, Cal. (62). G

Hornor, Harry Archer, E. E., 102 Hamilton Court, Philadelphia, Pa. (60). D

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Hornung, Christian, Sc. D., Professor of Mathematics, Heidelberg University, Tiffin, Ohio. (50). A D

Horsley, J. Shelton, M. D., 303 West Grace St., Richmond, Va. (60). K

Horton, Byron Barnes, Sheffield, Pa. (54). F G

Horton, George M., M. D., Cobb Building, Seattle, Wash. (60). K

*Hortvet, Julius, State Chemist, Old Capitol, St. Paul, Minn. (50). 1906. C

*Hoskins, Leander Miller, Professor of Applied Mathematics, Leland Stanford Junior University, Stanford University, Cal. (54). 1906. A D

Hoskins, R. G., Ph. D., 2270 Indiana Ave., Columbus, Ohio. (61).

*Hoskins, William, 49 Sixth Ave., La Grange, Ill. (34). 1904. C

Hosmer, Sidney, E. E., 39 Boylston St., Boston, Mass. (50). D

Hotchkiss, Henry D., 165 Broadway, New York, N. Y. (57).

*Hotchkiss, Homer James, Professor of Physics, Drexel Institute, Philadelphia, Pa. (54). 1906. D

Hotchkiss, William Otis, Wisconsin Geological and Natural History Survey, Madison, Wis. (58). D E

Hottenroth, Frederick W., 981 Prospect Ave., Bronx, New York, N. Y. (57).

*Hottes, Charles Frederick, Ph. D., Assistant Professor of Botany, University of Illinois, Urbana, Ill. (54). 1909. G

Hough, Garry de N., M. D., 542 County St., New Bedford, Mass. (60) K

*Hough, R. H., Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (60). 1911. B D

*Hough, Theodore, Ph. D., Professor of Physiology, University of Virginia, Charlottesville, Va. (51). 1903. K

*Hough, Walter, Ph. D., U. S. National Museum, Washington, D. C. (38). 1890. H

*Hough, Prof. Williston S., George Washington University, Washington, D. C. (58). 1911. H L

Houghton, Clement S., 152 Suffolk Road, Chestnut Hill, Mass. (60).

Houghton, Prof. Clinton Osborne, Newark, Del. (58). F

*Houghton, E. Mark, M. D., 130 Longfellow Ave., Detroit, Mich. (52). 1906. K

Houghton, Harris A., M. D., Bayside, L. I., N. Y. (60). K

*Houser, Gilbert Logan, Ph. D., Professor of Animal Biology, State University of Iowa, Iowa City, Iowa. (50). 1906. F K

Houser, J. S., Ohio Agricultural Experiment Station, Wooster, Ohio. (58). F G

Houser, True, Ohio Agricultural Experiment Station, Germantown, Ohio. (62). G

Hovda, Olaf, Buhl-Strasse 42, Göttingen, Germany. (62). B

*Hovey, Edmund Otis, Ph. D., Curator of Geology, American Museum of Natural History, New York, N. Y. (36). 1895. C E

*Hovey, Rev. Horace Carter, D. D., 71 Lime St., Newburyport, Mass. (29). 1883. E H

Hoving, Johannes, M. D., Ph. D., 233 Lenox Ave., New York, N. Y. (60). K

Howald, Ferdinand, E. M., 1150 Bryden Road, Columbus, Ohio. (60). D

*Howard, Arthur Day, Ph. D., U. S. Biological Station, Fairport, Iowa. (57). 1909. F K

*Howard, Burton James, 1212 Decatur St. N. W., Washington, D. C. (60). 1911. C G

Howard, Campbell P., M. D., University Hospital, Iowa City, Iowa. (62). K

*Howard, Charles Danforth, Chemist, N. H. Board of Health, Concord, N. H. (60). 1911. C

Howard, Charles P., 116 Farmington Ave., Hartford, Conn. (51).

Howard, Charles T., 1735 East Ave., Rochester, N. Y. (58). D F

Howard, Charles Walter, College of Agriculture, St. Anthony Park, Minn. (58). F K

*Howard, Prof. Curtis C., 97 Jefferson Ave., Columbus, Ohio. (38). 1892. C

Howard, Harry Turner, 3513 St. Charles Ave., New Orleans, La. (55).

*Howard, Henry, Chemical Engineer, 36 Amory St., Brookline, Mass. (57). 1908. C

*Howard, Leland O., M. D., Ph. D., LL. D., Cosmos Club, Washington, D. C. (37). 1889. F

Howard, Orson, M. D., Curator of Museum, University of Utah, Salt Lake City, Utah. (50). F K

*Howard, Prof. S. Francis, Johns Hopkins University, Baltimore, Md. (50). 1901. B C

Howard, William Colman, 246 Washington Ave., Brooklyn, N. Y. (57).

*Howard, William Travis, M. D., Western Reserve Medical College. Cleveland, Ohio. (54). 1906. K

Howat, William Frederick, M. D., 151 So. Hohman St., Hammond, Ind. (58). H K L

Howe, Caroline G., 15 Miller St., Newark, N. J. (61). F G L

*Howe, Charles Sumner, Sc. D., Ph. D., LL. D., President, Case School of Applied Science, Cleveland, Ohio. (34). 1891. A D L

Howe, Clifton D., Ph. D., Instructor in Botany, University of Toronto, Toronto, Ontario, Canada. (57). G

Howe, Elmer Parker, P. O. Box 1825, Boston, Mass. (60).

*Howe, Ernest, Ph. D., 77 Rhode Island Ave., Newport, R. I. (52). 1906. D E

Howe, Eugene Clarence, Massachusetts Institute of Technology, Boston, Mass. (57). K

Howe, Freeland, Jr., Chemist and Bacteriologist, Norway, Maine. (53). C E F G

Howe, George Plummer, M. D., 384 Commonwealth Ave., Boston, Mass. (62). K

*Howe, Henry Marion, LL. D., Broad Brook Road, Bedford Hills, New York, N. Y. (50). 1901. D

*Howe, Herbert Alonzo, Sc. D., Ph. D., LL. D., Dean, College of Liberal Arts, University of Denver, University Park, Colo. (50). 1901. A

*Howe, James Lewis, M. D., Ph. D., Washington and Lee University, Lexington, Va. (36). 1888. C

Howe, John Morgan, M. D., 12 West 46th St., New York, N. Y. (50). K

*Howe, Malverd A., Professor of Civil Engineering, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1911. D

*Howe, Marshall Avery, Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1903. G

Howe, Paul E., Chemistry Building, Urbana, Ill. (58). C K

Howe, Walter Clarke, M. D., 303 Beacon St., Boston, Mass. (60). K

Howe, William Bell White, M. D., Box 12, Hendersonville, N. C. (61). K

*Howell, Edwin Eugene, 612 17th St. N. W., Washington, D. C. (25). 1891. E

Howell, John W., 211 Ballantine Parkway, Newark, N. J. (50).

Howell, W. L., Room 314 Custom House, New Orleans, La. (58). C

*Howell, William Henry, M. D., Ph. D., LL. D., Professor of Physiology, Johns Hopkins University, Baltimore, Md. (50). 1901. F K

Howes, Jarvis M., M. D., Sellersburg, Ind. (60). K

Howett, John Eaton, Professor of Botany, Ont. Agricultural College, Guelph, Ont., Can. (63). G

*Howison, George Holmes, LL. D., 2631 Piedmont Ave., Berkeley, Cal. (54). 1908. A H I L

Howland, Clarence Henry, D. D. S., 825 Vermont Ave., Washington, D. C. (63). K

Howland, Henry R., Library Building, Buffalo, N. Y. (60). H

Howland, John, M. D., Washington University Medical School, St. Louis, Mo. (62). K

Howland, Randolph H., 164 Wildwood Ave., Upper Montclair, N. J. (54). F

Howson, Hubert, E. E., 55 Liberty St., New York, N. Y. (60). D

*Hoxie, George Howard, M. D., 301-302 Argyle Building, Kansas City, Mo. (62). 1911. K

*Hoxton, Llewellyn Griffith, University of Virginia, Charlottesville, Va. (54). 1906. D

Hoyle, William Evans, Sc. D., Director, National Museum of Wales, City Hall, Cardiff, Wales. (61).

Hoyt, Olive Sawyer, Kobe College, Kobe, Japan. (52). C

Hoyt, Wilbur Franklin, Professor of Physical Science, State Normal School, Peru, Nebr. (62). B

Hoyt, William Dana, M. D., Ph. D., Rutgers College, New Brunswick, N. J. (60). G

*Hrdlicka, Alës, M. D., Curator of Anthropology, U. S. National Museum, Washington, D. C. (46). 1897. H K

Huard, L'abbé Victor A., 2 Port-Dauphin St., Quebec, Can. (63). F

*Hubbard, Geo. D., Department of Geology, Oberlin College, Oberlin, Ohio. (55). 1909. E H I L

*Hubbard, John Charles, Ph. D., Clark University, Worcester, Mass. (58). 1911. B L

Hubbard, Miss Marian Elizabeth, Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (58). F

Hubbard, Prévost, Chief, Division of Roads and Pavements, Institute of Industrial Research, Washington, D. C. (63). C D

Hubbard, Walter C., Coffee Exchange Building, New York, N. Y. (49).

Hubbell, Henry S., Ashburnham, Mass. (57). D

Hubbell, J. L., Ganado, Ariz. (58). H I

*Huber, G. Carl, M. D., Professor of Histology and Embryology, University of Michigan, Ann Arbor, Mich. (50). 1901. K

Hubert, J. Frank, M. D., 6820 Union Ave., Chicago, Ill. (60). K

Hudnall, Dr. Richard Henry, Professor of English, Virginia Polytechnic Institute, Blacksburg, Va. (63).

*Hudson, Claude Silbert, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. B C

Hudson, Erastus Meade, 39 Broad St., Plattsburg, N. Y. (57). F

*Hudson, George Henry, Vice-Principal, Science Department, State Normal School, Plattsburg, N. Y. (31). 1901. F

Hudson, James A., 45 Broadway, New York, N. Y. (57).

*Huey, Edmund Burke, Ph. D., Johns Hopkins University, Baltimore, Md. (58). 1911. H L

Huff, N. L., Asst. Professor of Botany, Univ. of Minnesota, Minneapolis, Minn. (62). G

*Huff, William Bashford, Ph. D., Associate Professor of Physics, Bryn Mawr College, Bryn Mawr, Pa. (60). 1910. B

Hughes, David Edward, C. E., 723 Central Building, Los Angeles, Cal. (60). D

Hughes, Francis T., Teacher of Biology, Boys' High School, Brooklyn, N. Y. (58). F G L

Hughes, Hector James, Assistant Professor of Civil Engineering, Harvard University, Cambridge, Mass. (60). D

Hughes, John W., 775 Hattic St., Schenectady, N. Y. (58). D

Hughes, Percy, Ph. D., Assistant Professor of Philosophy and Psychology, Lehigh University, South Bethlehem, Pa. (58). H L

*Hughes, Prof. Raymond Mollyneaux, Dean, College of Liberal Arts, Miami University, Oxford, Ohio. (57). 1908. C

*Hull, Gordon Ferrie, Ph. D., Professor of Physics, Dartmouth College, Hanover, N. H. (50). 1903. B

Humbert, Dr. Eugene P., Agricultural College, N. M. (63). G

*Hume, Alfred, C. E., Sc. D., Professor of Mathematics, University of Mississippi, University, Miss. (39). 1909. A D

*Hummel, John Adolph, 2143 Commonwealth Ave., St. Anthony Park, Minn. (48). 1911. C

*Humphrey, Clarence J., Forest Products Laboratory, Madison, Wis. (61). 1911. G

*Humphrey, Harry Baker, Ph. D., 1606 B St., Pullman, Wash. (55). 1911. G

*Humphrey, Richard Lewis, C. E., 805 Harrison Building, Philadelphia, Pa. (48). 1902. D

*Humphreys, Alexander Crombie, Sc. D., LL. D., 165 Broadway, New York, N. Y. (49). 1907. D

Humphreys, David Carlisle, C. E., Professor of Civil Engineering, Washington and Lee University, Lexington, Va. (53). D

Humphreys, Frederick B., M. D., 78 West 85th St., New York, N. Y. (57). K

*Humphreys, William Jackson, Ph. D., Cosmos Club, Washington, D. C. (54). 1906. A B D

Hunn, Chester Jermain, Hawaiian Experiment Station, Honolulu, Hawaii. (58). G

Hunner, Guy Leroy, M. D., 2305 St. Paul St., Baltimore, Md. (60). K

Hunt, Arthur E., Teacher of Biology, Manual Training High School, Brooklyn, N. Y. (54). F L

Hunt, Franklin Livingston, 19 Howard St., Waltham, Mass. (61). B C

Hunt, N. Rex, Wash. Agricultural Experiment Station, Pullman, Wash. (63). G

*Hunt, Reid, M. D., Ph. D., Hygienic Laboratory, 25th and E Sts. N. W., Washington, D. C. (58). 1910. C K

*Hunt, Walter Frederick, Instructor in Mineralogy, University of Michigan, Ann Arbor, Mich. (57). 1911. C E

Hunter, Andrew, Assistant Professor of Biochemistry, Cornell University, Ithaca, N. Y. (60). C K

*Hunter, Andrew Frederick, Barrie, Ontario, Canada. (38). 1896. B H I

Hunter, George E., M. E., ... (60). D

Hunter, George William, 2238 Andrews Ave., University Heights, New York, N. Y. (51). F

Hunter, John Frederick, Johns Hopkins University, Baltimore, Md. (63). E

Hunter, John Vincent, M. E., Stillwater, Minn. (60). D

*Hunter, Samuel John, Professor of Entomology, University of Kansas, Lawrence, Kans. (50). 1902. F

*Hunter, Walter David, Box 208, Dallas, Tex. (50). 1905. F

HUNTINGTON, ARCHER M., Hispanic Society of America, 156th St. near Broadway, New York, N. Y. (57).

*Huntington, Edward Vermilye, Ph. D., 27 Everett St., Cambridge, Mass. (58). 1908. A

*Huntington, Ellsworth, Ph. D., Instructor in Geography, Yale University, New Haven, Conn. (51). 1909. E

Huntington, F. W., 1801 Dorchester Road, Brooklyn, N. Y. (60). B

Huntington, Frank, U. S. Dept. of Agriculture, Washington, D. C. (62).

*Huntington, George Sumner, M. D., Sc. D., LL. D., Professor of Anatomy, Columbia University, New York, N. Y. (52). 1906. F K

Huntsman, Frank C., C. E., P. O. Box 1334, Alliance, Nebr. (60). D

Hurd, Ethan Osborn, Box 19 B, R. F. D. No. 10, Station M, Cincinnati, Ohio. (30). E F

*Hurd, Henry Mills, M. D., 1023 St. Paul St., Baltimore, Md. (58). 1909. H K

Hurd, R. M., 59 Liberty St., New York, N. Y. (58). I

*Hurd, Prof. William Daniel, Massachusetts Agricultural College, Amherst, Mass. (60). 1911. G

Hurst, Julius H., M. D., Box 237, Santa Barbara, Cal. (52). H K

Hurt, Henry H., Box 208, Covington, Va. (58). C

Hurter, Julius, Sr., 2346 So. 10th St., St. Louis, Mo. (63). D

*Hurty, John N., M. D., 17 East 11th St., Indianapolis, Ind. (58). 1909. K

Husik, Isaac, Ph. D., 408 So. 9th St., Philadelphia, Pa. (60). H

*Hussakof, Louis, Ph. D., American Museum of Natural History, New York, N. Y. (56). 1911. F

Hussey, Harry Brigham, E. E., 309 O. C. S. Bank Building, Syracuse, N. Y. (60). D

*Hussey, William Joseph, Sc. D., Professor of Astronomy, University of Michigan, Ann Arbor, Mich. (58). 1909. A

*Huston, Henry A., Room 1804, 42 Broadway, New York, N. Y. (53). 1911. C

Hutchings, Stanley R., M. D., 502 West High St., Springfield, Ohio. (60). K

Hutchings, Willard Hunter, M. D., Fine Arts Building, Detroit, Mich. (60). K

*Hutchins, Charles Clifford, Professor of Physics, Bowdoin College, Brunswick, Me. (58). 1910. B

*Hutchins, Edgar Burton, Jr., Ph. D., 174 East 1st St., Fond du Lac, Wis. (57). 1909. C

*Hutchinson, Cary Talcott, Ph. D., Consulting Engineer, 60 Wall St., New York, N. Y. (58). 1910. B D

Hutchinson, Edward S., C. E., M. E., 34 South State St., Newtown, Pa. (58). D

*Hutchinson, John Irwin, Ph. D., Professor of Mathematics, Cornell University, Ithaca, N. Y. (60). 1910. A

Hutchinson, Woods, M. D., 38 East 49th St., New York, N. Y. (56). K L

Hyams, Miss Isabel F., 26 Wales St., Dorchester, Mass. (47). C

Hyde, Abraham Lincoln, Assistant Professor of Bridge Engineering, University of Missouri, Columbia, Mo. (54). D

Hyde, B. T. Babbitt, 11 Broadway, New York, N. Y. (43). C D H

Hyde, Miss Edith E., 1840 Summit Place, N. W., Washington, D. C. (50). H I

Hyde, E. Francis, 36 West 58th St., New York, N. Y. (43). A

*Hyde, Edward Pechin, Ph. D., Hough Ave. and 45th St., Cleveland, Ohio. (60). 1910. B

*Hyde, Edward Wyllys, Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. (25). 1881. A

Hyde, Frederick E., M. D., 542 Fifth Ave., New York, N. Y. (43). E K

Hyde, Frederick E., Jr., 542 Fifth Ave., New York, N. Y. (43). H

Hyde, Henry St. John, 210 East 18th St., New York, N. Y. (49). B C D E

*Hyde, Jesse Earl, School of Mining, Kingston, Ont., Canada. (57). 1911. E F

*Hyde, John, 1840 Summit Place, N. W., Washington, D. C. (47). 1898. E I

Hyde, Perley Charles, Instructor, Department of Mathematics, Jersey City High School, Jersey City, N. J. (58). A B C H L

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Hyslop, James A., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (60). F

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Hyslop, John, 4 Riverview Terrace, New York, N. Y. (57).

*Iddings, Joseph Paxson, Sc. D., Brinklow, Md. (31). 1884. E

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Illoway, Henry, M. D., 1113 Madison Ave., New York, N. Y. (57). K L

Imlay, Lorin Everett, Superintendent, Niagara Falls Power Company, Niagara Falls, N. Y. (60). D

Ingall, Elfric Drew, M. E., Geological Survey of Canada, Ottawa, Canada. (60). E

*Ingals, E. Fletcher, M. D., 5540 Woodlawn Ave., Chicago, Ill.. (60). 1911. K

Ingalsbe, Prof. Frank Richmond, Forestry Service, Missoula, Mont. (62). E

Ingalsbe, Hon. Grenville M., First Vice-President, N. Y. State Historical Association, Hudson Falls, N. Y. (62).

Ingersoll, John M., M. D., 1021 Prospect Ave., Cleveland, Ohio. (60). K

*Ingersoll, Leonard Rose, Ph. D., Associate Professor of Physics, University of Wisconsin, Madison, Wis. (58). 1910. B

Ingham, William Armstrong, Room 406, Lafayette Building, 5th and Chestnut Sts., Philadelphia, Pa. (33). E

Ingraham, George Landon, 80 Irving Place, New York, N. Y. (57).

Ingram, Edward Lovering, C. E., Assistant Professor of Railroad Engineering, University of Pennsylvania, Philadelphia, Pa. (51). D

*Irving, John Duer, Ph. D., Professor of Economic Geology, Yale University, New Haven, Conn. (51). 1903. D E

Irving, Mrs. Rosina J., 259 West 127th St., New York, N. Y. (57).

Irwin, Frederick C., Central High School, Detroit, Mich. (60). I

Irwin, Ralph E., State Department of Health, Harrisburg, Pa. (60). D F

Isaacs, Raphael, Dept. of Zoology, University of Cincinnati, Cincinnati, Ohio. (63). F K

Isely, Frederick B., Secretary, Oklahoma Academy of Science, Tonkawa, Okla. (61).

*Isham, George Snow, M. D., 1340 North State St., Chicago, Ill. (54). 1906. A K

*Ives, Frederic Eugene, Woodcliff-on-Hudson, Guttenberg, N. J. (44). 1898. B

Ives, Herbert Eugene, Ph. D., Nat. Electric Lamp Asso., Cleveland, Ohio. (62). B

*Ives, James Edmund, Ph. D., Associate Professor of Physics, University of Cincinnati, Cincinnati, Ohio. (58). 1910. B

Ives, Judson Dunbar, Instructor in Biology, Wake Forest College, Wake Forest, N. C. (60). F

Jablonowski, Joseph, Director, Entomological Station of the State, Budapest, Hungary. (58). F

Jaches, Leopold, M. D., Loomis Laboratory, Cornell University Medical College, New York, N. Y. (57). B C K

*Jack, John George, Assistant Professor of Dendrology, Harvard University, 117 Forest Hill St., Jamaica Plain, Mass. (31). 1890. F G

*Jackson, Abraham Wendell, 9 Woodcrest Ave., White Plains, N. Y. (54). 1906. E L

Jackson, C. Floyd, Durham, N. H. (58). F

*Jackson, Charles Loring, Professor of Chemistry, Harvard University, Cambridge, Mass. (44). 1895. C

*Jackson, Clarence Martin, M. D., Professor of Anatomy, University of Missouri, Columbia, Mo. (58). 1911. F K

*Jackson, Daniel Dana, 930 President St., Brooklyn, N. Y. (60). 1911. C

Jackson, Dennis Emerson, Ph. D., Associate in Pharmacology, Washington University Medical School, St. Louis, Mo. (62). K

*Jackson, Dugald Caleb, C. E., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston Mass. (60). 1911. D

*Jackson, Florence, 264 Boylston St., Boston, Mass. (58). 1911. C L

Jackson, H. S., Professor of Botany and Plant Pathology, Oregon Agricultural Experiment Station, Corvallis, Ore. (60). G

Jackson, Hartley H. T., Biological Survey, U. S. Dept. of Agriculture, Washington, D. C. (61). F L

*Jackson, Holmes Condict, Ph. D., 338 East 26th St., New York, N. Y. (57). 1908. K

*Jackson, John Price, State College, Pa. (61). 1912. D

*Jackson, Robert Tracy, Sc. D., 56 Bay State Road, Boston, Mass. (37). 1890. F

Jackson, Thomas Moore, C. E., Clarksburg, W. Va. (60). D

Jackson, Victor Hugo, M. D., 240 Lenox Ave., New York, N. Y. (51). K

Jackson, William B., M. D., 329 High St., Lowell, Mass. (60). K

*Jacobi, Abraham, M. D., LL. D., 19 East 47th St., New York, N. Y. (57). 1911. K L

*Jacobs, Henry Barton, M. D., 11 Mt. Vernon Place, Baltimore, Md. (50). 1909. F G K L

*Jacobs, J. Warren, 404 South Washington St., Waynesburg, Pa. (54). 1906. F

Jacobs, Merkel Henry, Ph. D., University of Pennsylvania, Philadelphia, Pa. (62). F

Jacobs, Michael William, 222 Market St., Harrisburg, Pa. (50). I

*Jacobus, David Schenck, M. E., 85 Liberty St., New York, N. Y. (36). 1889. A B D

Jacobus, R. Fulton, M. E., Ridgefield, N. J. (60). D

*Jacoby, Harold, Ph. D., Professor of Astronomy, Columbia University, New York, N. Y. (38). 1891. A

Jacoby, Henry Sylvester, Professor of Bridge Engineering, Cornell University, Ithaca, N. Y. (36). 1892. D L

James, Charles C., 144 St. George St., Toronto, Canada. (46). I

James, Henry C., 1018 St. Paul St., Baltimore, Md. (60).

James, John Nelson, Indiana State Normal School, Indiana, Pa. (58). C

*James, Joseph Hidy, Ph. D., Professor of Chemistry, Carnegie Technical Schools, Pittsburg, Pa. (58). 1911. C D L

James, Mrs. Sarah Stubbs, 1504 R St., Washington, D. C. (49). H I

*James, Walter Belknap, M. D., LL. D., 17 West 54th St., New York, N. Y. (54). 1906. K

Jameson, A. H., P. O. Box 696, Branford, Conn. (60). C

Jamieson, Clara O., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). G

*Jamieson, George Samuel, Ph. D., 96 Linden St., New Haven, Conn. (60). 1911. C

Jamieson, Thomas H., M. D., Wellington, Kans. (60). K

Jandorf, Morton Lehmayer, 620 So. George St., York, Pa. (63). E

Janeway, Henry H., M. D., Riverdale-on-Hudson, N. Y. (60). K

Janeway, Theodore Caldwell, M. D., 131 East 60th St., New York, N. Y. (62). K

*Jaques, Capt. William Henry, Vice-President and General Manager, United Telephone Co., Board of Trade Building, Boston, Mass. (47). 1899. D

Jardine, W. M., Professor of Agronomy, State Agricultural College, Manhattan, Kansas. (63). G

Jarman, Joseph L., President and Professor of Chemistry, State Female Normal School, Farmville, Va. (51). C

*Jastrow, Joseph, Ph. D., Professor of Psychology, University of Wisconsin, Madison, Wis. (35). 1887. F H

*Jayne, Horace, M. D., Ph. D., Wallingford, Pa. (29). 1884. F H K

Jeffers, Leonard M., Board of Trade, New Orleans, La. (60). C

Jefferson, John Percival, Santa Barbara, Cal. (51). D E H

*Jefferson, Mark, Professor of Geography, Michigan State Normal College, Ypsilanti, Mich. (52). 1906. E

Jeffrey, Alexander B., M. D., 818 Kansas Ave., Topeka, Kans. (60). K

*Jeffrey, Edward Charles, Ph. D., 47 Lakeview Ave., Cambridge, Mass. (52). 1905. G

Jeffrey, Robert Henry, Gabriel, Durango, Mexico. (53). E

*Jeffries, B. Joy, M. D., 15 Chestnut St., Boston, Mass. (29). 1881. B F K

Jeffs, R. E., Iowa Wesleyan University, Mt. Pleasant, Iowa. (61). G

Jehle, Prof. R. A., Dept. of Plant Pathology, Cornell University, Ithaca, N. Y. (62). G

Jelly, Arthur Carlton, M. D., 10 Arlington St., Boston, Mass. (60). H K L

*Jenkins, Edward Hopkins, Ph. D., Agricultural Station, New Haven, Conn. (33). 1885. C

JENKINS, GEORGE C., Abell Building, Baltimore, Md. (60).

Jenkins, Lawrence Waters, Curator of Ethnology, Peabody Museum, Salem, Mass. (57). H

*Jenkins, Oliver Peebles, Ph. D., Professor of Physiology, Stanford University, Cal. (52). 1905. F K

*Jenks, Albert Ernest, Ph. D., Professor of Anthropology, University of Minnesota, Minneapolis, Minn. (50). 1902. H

*Jenks, Elisha Tucker, Middleboro, Mass. (22). 1874. D

Jenks, William H., Brookville, Pa. (38).

Jenks, William Johnson, Suite 1923, 30 Church St., New York, N. Y. (50). B D

Jenne, Eldred Llewellyn, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (58). F

*Jenney, Walter Proctor, Ph. D., 1763 Q St., N. W., Washington, D. C. (50). 1903. E

Jennings, Allan H., Box 208, Dallas, Texas. (60). F

*Jennings, Edward Payson, E. M., P. O. Box 841, Salt Lake City, Utah. (60). 1911. D

Jennings, Fred Huntington, 121 South Pleasant St., Watertown, N. Y. (57). C

Jennings, Gainor, M. D., West Milton, Ohio. (51). K

Jennings, Hennen, 2221 Mass. Ave., Washington, D. C. (63). D E

*Jennings, Herbert Spencer, Ph. D., LL. D., Henry Walters Professor of Zoology, and Director, Biological Laboratory, Johns Hopkins University, Baltimore, Md. (54). 1906. F

Jennings, Rev. James J., 333 Springfield Ave., Chicago, Ill. (60). I L

Jennings, John G., 2346 West 14th St., Cleveland, Ohio. (63).

*Jennings, Otto Emery, Carnegie Museum, Pittsburg, Pa. (53). 1909. G

*Jennings, Walter L., Ph. D, Professor of Organic Chemistry, Worcester Polytechnic Institute, Worcester, Mass. (45). 1898. C

Jennison, Harry M., Instructor in Botany, Montana Agricultural Experiment Station, Bozeman, Mont. (62). G

Jensen, Charles A., care American Beet Sugar Co., Rocky Ford, Colo. (54). G

*Jensen, Jens, 815 Steinway Hall Building, Chicago, Ill. (58). 1911. E F G

Jensen, Jesse P., Superintendent of Schools, Eagle Bend, Minn. (62). F

Jernberg, Laurence W., 1248 East 111th St., Cleveland, Ohio. (63).

Jessen, Karl Detlev, Ph. D., Professor of German Literature, Bryn Mawr College, Bryn Mawr, Pa. (55). H

Jewell, Miss Susan Grace, Instructor in Biology, Tabor College, Tabor, Iowa. (58). F G

Jewell, William M., Park Ridge, Ill. (58).

*Jewett, Frank Fanning, Professor of Chemistry and Mineralogy, Oberlin College, Oberlin, Ohio. (47). 1899. C

Jewett, William Cornell, C. E., The Harvey, Avondale, Cincinnati, Ohio. (52). D

Jobling, James Wesley, M. D., Michael Reese Hospital, Chicago, Ill. (62). K

Jodidi, S. L., Iowa State College, Ames, Iowa. (62).

Joerg, Wolfgang L. G., 604 West 146th St., New York, N. Y. (63). E

*Joffe, S. A., Mutual Life Insurance Co. of New York, 55 Cedar St., New York, N. Y. (54). 1906. A

*Johannsen, Albert, Ph. D., Walker Museum, Chicago, Ill. (54). 1909. E

Johannsen, Oskar Augustus, Ph. D., Entomologist, Me. Agricultural Experiment Station, Orono, Me. (54). F

Johansen, Erneste, M. D., Whitney Building, 133 Geary St., San Francisco, Cal. (60). K

*Johns, Carl, Ph. D., Instructor in Chemistry, Yale University, New Haven, Conn. (50). 1911. C

Johnson, Aaron G., Purdue Experiment Station La Fayette, Ind. (60). G

Johnson, Albert Lincoln, C. E., care Corrugated Bar Co., Mutual Life Building, Buffalo, N. Y. (51). D

Johnson, Charles Eugene, Department of Zoology, University of Minnesota, Minneapolis, Minn. (58). F

*Johnson, Charles Morris, 731 Orchard St., Avalon, Pa. (60). 1911. C

*Johnson, Charles Willison, Curator, Boston Society of Natural History, Boston, Mass. (51). 1908. F

*Johnson, Douglas Wilson, Ph. D., Harvard University, Cambridge, Mass. (54). 1909. E

*Johnson, Duncan Starr, Ph. D., Professor of Botany, Johns Hopkins University, Baltimore, Md. (54). 1906. G

Johnson, Edward Carl, U. S. Dept. of Agriculture, Washington, D. C. (62). G

Johnson, Frank Seward, M. D., 2521 Prairie Ave., Chicago, Ill. (51). B K

Johnson, Fred, U. S. Dept. of Agriculture, Washington, D. C. (62). F

*Johnson, Herbert Parlin, Ph. D., Cedaredge, Colo. (54). 1906. K

Johnson, Homer H., 1009 American Trust Bldg., Cleveland, Ohio. (63).

Johnson, James H., M. D., 814 West 7th St., Los Angeles, Cal. (60). K

Johnson, James T., M. D., 31 Washington St., Cumberland, Md. (60). K

Johnson, Jesse F., No. 6 Grosvenor Apartments, 756 Sherbrooke St., West, Montreal, Canada. (58). C

Johnson, Montgomery Hunt, E. E., 41 Plant St., Utica, N. Y. (60). D

*Johnson, Otis Coe, Professor of Qualitative Chemical Analysis, University of Michigan, Ann Arbor, Mich. (34). 1886. C

Johnson, Roswell H., 403 Mutual Building, Bartlesville, Okla. (60). F

Johnson, S. Arthur, Associate Professor of Zoology, State Agricultural College, Fort Collins, Colo. (58). F

*Johnson, Thomas Carskadon, Virginia Truck Experiment Station, Norfolk, Va. (51). 1911. G

Johnson, Thomas H., C. E., 720 Union Station, Pittsburg, Pa. (60). D

Johnson, William D., M. D., Batavia, N. Y. (58). A K

Johnson, William P., 75 So. 9th St., Minneapolis, Minn. (62).

Johnson, William Smythe, Ph. D., 346 Arkansas Ave., Fayetteville, Ark. (49). H L

*Johnston, Charles Hughes, Ph. D., 1238 Mississippi St., Lawrence, Kansas. (58). 1911. H

Johnston, E. S., Dickinson College, Carlisle, Pa. (63). B F G

Johnston, Frederick Atkins, The S. S. White Dental Manufacturing Company, Prince Bay, N. Y. (60). C D

Johnston, George Ben, M. D., 407 East Grace St., Richmond, Va. (51). K

*Johnston, John Black, Ph. D., Associate Professor of Neurology, University of Minnesota, Minneapolis, Minn. (52). 1904. F L

Johnston, John R., Rio Pedras, Porto Rico. (62).

Johnston, Thomas J., 66 Broadway, New York, N. Y. (50). A B D

Johnston, William A., Prince Bay, N. Y. (50). B C D

Johnstone, Augustus Ralph, M. D., 4147 Lake Ave., Chicago, Ill. (60). K

*Johonnott, Edwin Sheldon, Jr., Ph. D., Associate Professor of Physics, Rose Polytechnic Institute, Terre Haute, Ind. (50). 1904. B

Jones, A. Halden, M D., 1186 West 27th St., Los Angeles, Cal. (61). K

*Jones, Adam Leroy, Ph. D., Columbia University, New York, N. Y. (52). 1905. H L

*Jones, Arthur Taber, Assistant Professor of Physics, Clark University, Worcester, Mass. (53). 1911. B

*Jones, C. Hampson, M. D., 2529 St. Paul St., Baltimore, Md. (58). 1909. K

Jones, Charles Howland, 83 Brooks Ave., Burlington, Vt. (58). C D

Jones, Charles Landon, 63 Wall St., New York, N. Y. (57).

Jones, Charles Richardson, 317 Edward St., Fort Collins, Colo. (55). F

*Jones, Clement Ross, Professor of Mechanical Engineering, West Virginia University, Morgantown, W. Va. (50). 1912. D

Jones, Dwight Arven, 34 West 51st St., New York, N. Y. (57).

Jones, E. Milton, Columbia University, New York, N. Y. (63).

Jones, Elmer E., Ph. D., 620 University St., Bloomington, Ind. (62). L

Jones, Franklin T., 2171 Cummington Rd., S. E., Cleveland, Ohio. (60). C

*Jones, Frederick Scheetz, Professor of Physics, Yale College, New Haven, Conn. (45). 1901. B

Jones, George E., M. D, 38 Carrera St., St. Augustine, Fla. (60). K

Jones, Grandville R., C. E., Filtration Plant, Washington, D. C. (60). D

Jones, Hon. Granville D., Wausau, Wis. (60). L

Jones, Hilton Ira, Muskogee, Okla. (63).

Jones, Howard E. A., 86 De Mott Ave., Clifton, N. J. (60). L

Jones, J. Claude, Asst. Professor of Mineralogy, University of Nevada, Reno, Nev. (61). E

Jones, Lafon,.....(58). C

*Jones, Lauder William, Ph. D., Professor of Chemistry, University of Cincinnati, Cincinnati, Ohio. (60). 1910. C

*Jones, Lewis Ralph, Sc. D., Ph. D., Professor of Botany, University of Wisconsin, Madison, Wis. (41). 1894. G

*Jones, Louis Cleveland, Ph. D., care Solvay Process Co., Syracuse, N. Y. (58). 1911. C E

*Jones, Lynds, Ph. D., Associate Professor of Animal Ecology, Oberlin College, Oberlin, Ohio. (50). 1905. F

*Jones, Prof. Marcus Eugene, 270 West South Temple St., Salt Lake City, Utah. (40). 1893. E G

Jones, Orren Lloyd, 1019 West Johnston St., Madison, Wis. (63). F

Jones, Paul R., U. S. Department of Agriculture, San José, Cal. (58). F

Jones, Richard U., Macalester College, St. Paul, Minn. (62).

Jones, W. Ralph, U. S. Dept. of Agriculture, Washington, D. C. (61). G

Jones, Walter C., M. D., 2309 Sherman Ave., Evanston, Ill. (60). K

Jones, William Henry, C. E., 315 Vine St., Leavenworth, Kans. (60). D

*Jones, William James, Jr., State Chemist, Purdue Experiment Station, La Fayette, Ind. (58). 1911. C

*Jordan, David Starr, M. D., Ph. D., LL. D., President, Leland Stanford Junior University, Stanford University, Cal. (31). 1883. E F G I K L

*Jordan, Edwin Oakes, Ph. D., Professor of Bacteriology, University of Chicago, Chicago, Ill. (50). 1901. K

*Jordan, Harvey Ernest, Ph. D., Professor of Histology and Embryology, University of Virginia, Charlottesville, Va. (57). 1909. F K

Jordan, James Douglas, M. D., Madisonville, Tex. (60). K

*Jordan, Lyman Granville, Ph. D., Bates College, Lewiston, Me. (60). 1911. C

Jordan, R. H., Principal, Western High School, 2519 Hennepin Ave., Minneapolis, Minn. (60). A

*Jordan, Whitman Howard, Sc. D., LL. D., Director, New York Agricultural Experiment Station, Geneva, N. Y. (45). 1902. I

Joseph, Emil, 1007 Society for Savings Building, Cleveland, Ohio. (63).

Joseph, Isaac, 1827 East 82d St., Cleveland, Ohio. (63).

*Joslin, Elliott Proctor, M. D., 81 Bay State Road, Boston, Mass. (60). 1911. K

Joyce, Clarence M., P. O. Box 23, Arlington, N. J. (60). C

Juat, Francis, M. D., Raeford, N. C. (50). F K

Juday, Chancey, River Pines, Stevens Point, Madison, Wis. (58). F

Judd, Albert Floyd, Professor of Chemistry, University of Pittsburgh Dental School, Pittsburgh, Pa. (63). C

*Judd, Charles Hubbard, Ph. D., LL. D., Professor of Psychology, University of Chicago, Chicago, Ill. (49). 1901. H I L

Judd, Horace, Assistant Professor of Experimental Engineering, Ohio State University, Columbus, Ohio. (56). D

Judson, Champion Hiram, M. D., Dobbs Ferry, N. Y. (57). K

*Judson, Harry Pratt, LL. D., Professor of Political Science, University of Chicago, Chicago, Ill. (58). 1910. L

Juettner, Otto, M. D., 628 Elm St., Cincinnati, Ohio. (57). K

*Julien, Alexis Anastay, Ph. D., Columbia University, New York, N. Y. (24). 1875. C E

Jungblut, Herman Carl, M. D., Tripoli, Iowa. (62). K

Jürgensen, Jess Christian, M. E., 114 Main St., Hackensack, N. J. (60). D

Kaadt, Peter S., M. D., 998 Belmont St., Portland, Ore. (54). K

Kadesch, W. H., Cedar Falls, Iowa. (62).

Kahl, Paul Hugo Isidor Carnegie Museum, Pitt3burg, Pa. (50). F

*Kahlenberg, Louis, Ph. D., Professor of Physical Chemistry, University of Wisconsin, Madison, Wis. (46). 1898. B C

Kahn, Julius, 100 West 80th St., New York, N. Y. (50). C

Kahn, O. H., P. O. Box 1193, New York, N. Y. (57).

Kaliski, Maximilian S., Ph. D., 2234 Eighth Ave., New York, N. Y. (58). C

*Kammerer, Frederic, M. D., 51 East 66th St., New York, N. Y. (60). 1911. K

Kammerer, Jacob Andrae, 87 Jameson Ave., Toronto, Canada. (50). C D

*Kane, Elisha Kent, Kushequa, Pa. (54). 1906. D

Kane, R. Emmet, M. D., 312 Humboldt Building, St. Louis, Mo. (58). K

Kane, Thomas Francis, Castleton Hotel Park, New Brighton, N. Y. (58). A

Kane, Thomas Franklin, Ph. D., President, University of Washington, Seattle, Wash. (55). I

Kantor, William L., M. D., 386 East 143d St., New York, N. Y. (60). K

Kaplan, Harry, 3118 Avalon St., Pittsburg, Pa. (57). D I

*Karapetoff, Vladimir, E. E., Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. (60). 1911. D

Karrer, Enoch, University Station, Seattle, Wash. (63). B

Karsten, Adrian C., M. D., Horicon, Wis. (58). K

*Kasner, Edward, Ph. D., Professor of Mathematics, Barnard College, Columbia University, New York, N. Y. (52). 1904. A

Kast, Ludwig, M. D., 771 Madison Ave., New York, N. Y. (62). K

Katsuki, I., M. D., Honolulu, Hawaii. (60). K

Katz, Frank J., U. S. Geological Survey, Washington, D. C. (60). E

Kauffman, William Albert, 15 Union Park Ave., Jamaica, N. Y. (52).

Kaufmann, Franklin John, M. D., 311 West Genesee St., Syracuse, N. Y. (60). K

Kaufmann, Jacob, M. D., 52 East 58th St., New York, N. Y. (60). K

Kaufman, Mrs. Una Libby, Marquette, Mich. (62). H L

Kautz-Eulenberg, Miss P. R., 45 West 11th St., New York, N. Y. (61).

Kavanagh, Thomas J., Superintendent, American Sugar Refining Co., Jersey City, N. J. (56). C

Kawin, Charles C., 417 So. Dearborn St., Chicago, Ill. (58). C

*Kay, George Frederick, Professor of Petrology and Economic Geology, State University of Iowa, Iowa City, Iowa. (57). 1910. E

Kay, James I., 5440 Forbes St., Pittsburg, Pa. (51). D I

Kayser, William, 26 East Anglaize St., Wapakoneta, Ohio. (58). F G

Kearfott, William Dunham, Montclair, N. J. (54). F

*Kearney, Thomas H., U. S. Department of Agriculture, Washington, D. C. (47). 1902. G

*Kebler, Lyman Frederic, M. D., U. S. Department of Agriculture, Washington, D. C. (60). 1911. C

*Keen, William W., M. D., Ph. D., LL. D., 1729 Chestnut St., Philadelphia, Pa. (60). 1910. K

*Keep, William John, 753 Jefferson Ave., Detroit, Mich. (37). 1897. D

Keffer, Frederic, M. E., Greenwood, B. C., Canada. (60). D

Keilholtz, Pierre Otis, Consulting Engineer, Continental Trust Building, Baltimore, Md. (50). D

Keim, Edward Tudor, E. E., Superintendent, American District Tel. Co., Denver, Colo. (50). D E F

*Keith, Arthur, U. S. Geological Survey, Washington, D. C. (60). 1910. E

Keith, John Meiggs, San José, Costa Rica, C. A. (54). G I

*Keith, Miss Marcia A., 116 Nassau St., New York, N. Y. (46). 1906. A B D

Keith, Simeon Curtis, Jr., 88 Broad St., Boston, Mass. (60). F

Keith, Stanley, care Keith Bros. & Co., 239 Jackson Boulevard, Chicago, Ill. (58).

Keitt, George Wannamaker, 316 No. Park St., Madison, Wis. (62). G

Keitt, Thomas Ellison, Clemson College, S. C. (60). C

*Keller, Edward, Ph. D., Box 363, Perth Amboy, N. J. (50). 1904. C

Keller, Frederick C., M. D., 41 West 71st St., New York, N. Y. (60). K

Keller, George J., 191 Avon Ave., Newark, N. J. (58). F

*Kellerman, Karl Frederic, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. G

Kellerman, Miss Maude, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). G

Kelley Frank J., College of Agriculture, University of Wisconsin, Madison, Wis. (61). F

*Kelley, George Leslie, 11 Chester Place, West Somerville, Mass. (58). 1911. C

Kelley, Morriss De Witt, M. D., La Grange, Ky. (60). K

*Kelley, Walter Pearson, Chemist, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (58). 1911. F

Kelley, William Datus, C. E., 12th St. near Vernon Ave., Long Island City, N. Y. (60). D

*Kellicott, William E., Ph. D., Professor of Biology, Goucher College, Baltimore, Md. (57). 1909. F

Kellogg, Edward L., M. D., 104 West 58th St., New York, N. Y. (60). K

Kellogg, Harriette S., Iowa State College, Ames, Iowa. (62).

Kellogg, John Harvey, M. D., Superintendent, Battle Creek Sanitarium, Battle Creek, Mich. (24). C H I K

*Kellogg, Vernon Lyman, Professor of Entomology, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. F H

Kelly, Edward H., M. D., Ironwood, Mich. (60). K

Kelly, Edward O. G., U. S. Entomological Laboratory, Wellington, Kans. (55). F

Kelly, F. M., M. D., Needles, Cal. (60). K

Kelly, Harry McCormick, Professor of Biology, Cornell College, Mt. Vernon, Iowa. (60). F

Kelly, Henry A., 33 Central Park, W., New York, N. Y. (60). F

*Kelly, Howard Atwood, M. D., LL. D., 1418 Eutaw Place, Baltimore, Md. (60). 1910. K

Kelly, John Forrest, Ph. D., Consulting Electrical Engineer, 284 West Housatonic St., Pittsfield, Mass. (50). D

Kelly, William, E. M., General Manager, Penn Iron Mining Co., Vulcan, Mich. (50). D E

Kelman, John H., M. E., 194 Lefferts Place, Brooklyn, N. Y. (60). D

Kelvey, Charles W., Attorney-at-Law, 36 West 9th St., New York, N. Y. (57).

Kemble, Rev. Duston, 1426 Winchester Ave., Lakewood, Ohio. (63).

*Kemp, George Theophilus, M. D., Ph. D., 8 West 25th St., Baltimore, Md. (52). 1906. K

*Kemp, James Furman, Sc. D., Professor of Geology, Columbia University, New York, N. Y. (36). 1888. E

Kempton, Charles Walter, E. M., 29 Broadway, New York, N. Y. (54). E

Kendall, Hugh F., E. M., General Manager, N. Y. State Steel Co., Virginia, Minn. (50). **D E**

*Kendall, William Converse, M. D., Bureau of Fisheries, U. S. Department of Commerce and Labor, Washington, D. C. (52). 1906. **F K L**

*Kendrick, Arthur, 45 Hunnewell Ave., Newton, Mass. (45). 1897. **B**

Kenerson, William H., M. E., Professor of Mechanical Engineering, Brown University, Providence, R. I. (60). **D**

Kennedy, Frank Lowell, Assistant Professor of Drawing and Machine Design, Harvard University, Cambridge, Mass. (50). **D**

Kennedy, George Golding, M. D., Readville, Mass. (40). **E G**

KENNEDY, HARRIS, M. D., 286 Warren St., Roxbury, Mass. (40). **E F**

Kennedy, Jeremiah Joseph, C. E., 52 Broadway, New York, N. Y. (60). **D**

Kennedy, Mary Elizabeth, Mt. Holyoke College, South Hadley, Mass. (54). **G**

Kennedy, Willard J., Professor of Animal Husbandry, Iowa State College, Ames, Iowa. (61).

*Kennelly, Arthur Edwin, Sc. D., Professor of Electrical Engineering, Harvard University, Cambridge, Mass. (50). 1901. **A B C**

Kenney, Miss C. Belle, Quincy Mansion School, Wollaston, Mass. (58). **A B C E L**

Kent, G. H., 1 Broadway, New York, N. Y. (57).

Kent, Grace Helen, Ph. D., State Hospital for Insane, Warren, Pa. (63). **H**

Kent, James Martin, Instructor in Steam and Electricity, Manual Training High School, Kansas City, Mo. (50). **B D L**

*Kent, Norton Adams, Ph. D., Professor of Physics, Boston University, Boston, Mass. (50). 1906. **A B**

*Kent, William, Sc. D., 49 Union St., Montclair, N. J. (26). 1881. **D L**

Kenyon, Oscar Curtis, 110 Lancaster Ave., Syracuse, N. Y. (50). **B**

Kenyon, William Houston, 49 Wall St., New York, N. Y. (57). **B I L**

Keppel, Frederick Paul, Secretary, Columbia University, New York, N. Y. (51). **L**

*Keppel, Herbert G., Ph. D., Professor of Mathematics, University of Florida, Gainesville, Fla. (60). 1911. **A**

Keppler, Rudolph, 28 West 70th St., New York, N. Y. (49).

*Kern, Frank Dunn, Purdue University, La Fayette, Ind. (54). 1909. **G**

Kern, John H., M. D., 1317 Madison St., St. Louis, Mo. (53). **K**

Kern, Josiah Quincy, Ph. D., 1825 F St. N. W., Washington, D. C. (40). **I**

*Kerr, Abram Tucker, M. D., Professor of Anatomy, Cornell University, Ithaca, N. Y. (52). 1906. **F K**

Kerr, Charles Henry, Research Ceramic Chemist, Pittsburg Plate Glass Co., Creighton, Pa. (58). **C E**

Kerr, Henry, Le Grand, California. (61). **L**

Kerr, Miss Josephine E., North Market St., Urbana, Ill. (61).

*Kerr, William Jasper, President, Oregon Agricultural College, Corvallis, Oregon. (52). 1906. **A**

*Kershner, Jefferson E., Ph. D., 445 West Chestnut St., Lancaster, Pa. (29). 1883. **C E**

Kesler, John Louis, Professor of Biology, Baylor University, Waco, Tex. (51). **F G K**

*Kester, Frederick Edward, Ph. D., Professor of Physics, University of Kansas, Lawrence, Kan. (48). 1906. **B**

*Ketchum, Milo Smith, Dean of College of Engineering and Professor of Civil Engineering, University of Colorado, Boulder, Colo. (58). 1911. **A D L**

Key, Mrs. Wilhelmine E., Ph. D., Professor of Biology, Lombard College, Galesburg, Ill. (62). **F**

*Keyes, Charles Rollin, Ph. D., 944 Fifth Ave., Des Moines, Iowa. (58). 1910. **E**

*Keyser, Cassius Jackson, Ph. D., Head, Department of Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**

Keyser, R. Brent, Keyser Building, Baltimore, Md. (60).

Keyte, I. Allen, Salida, Colo. (60). **A C**

Khuon, Edwin, M. D., 1927 Central Ave., Cincinnati, Ohio. (60). **K**

*Kidder, Albert Franklin, Assistant Professor of Agronomy, College of Agriculture, Louisiana State University, Baton Rouge, La. (58). 1911. **E G**

KIDDER, NATHANIEL T., Milton, Mass. (60).

Kier, Samuel Martin, E. E., Oliver Building, Pittsburgh, Pa. (60). **D**

Kilby, Clinton Maury, Ph. D., College Park, Va. (63). **A B**

Kildee, H. H., Station A., Ames, Iowa. (62).

*Kilgore, Benjamin Wesley, State Chemist, Raleigh, N. C. (52). 1906. **C**

Killeen, John F., Ph. D., ... (60). **F**

Killpartrick, Mary Harriet, Teacher of Commercial Geography, Lowell High School, Lowell, Mass. (62). **E**

*Kimball, Arthur Lalanne, Ph. D., Professor of Physics, Amherst College, Amherst, Mass (50). 1901. **B**

Kimball, Edwin Boyce, 209 Hillside Ave., Piedmont Station, Oakland, Cal. (50). **D E**

Kimball, James Henry, U. S. Weather Bureau, Richmond, Va. (51). **A B E**

Kimball, Sumner I., General Superintendent, Life Saving Service, U. S. Treasury Department, Washington, D. C. (49). **H I**

Kincaid, Trevor, University of Washington, Seattle, Wash. (60). **F**

*Kindle, Edward Martin, Ph. D., U. S. Geological Survey, Washington D. C. (50). 1908. **E**

*King, Albert F. A., M. D., LL. D., 1315 Massachusetts Ave. N. W., Washington, D. C. (29). 1900. **F H K L**

*King, Arthur Scott, Ph. D., Superintendent, Physical Laboratory, Mt. Wilson Solar Observatory, Pasadena, Cal. (60). 1910. **B**

King, Charles Lee, M. D., 70 South Euclid Ave., Pasadena, Cal. (60). **K**

King, Charlotte M., Iowa Agricultural Experiment Station, Ames, Iowa. (62). **G**

*King, Cyrus Ambrose, Ph. D., 431 East 4th St., Brooklyn, N. Y. (50). 1904. G

King, Edward Skinner, Harvard College Observatory, Cambridge, Mass. (60). A B

King, H. D., Inspector, 6th Light-House District, Charleston, S. C. (62).

*King, Helen Dean, Ph. D., Wistar Institute of Anatomy, 36th St. and Woodland Ave., Philadelphia, Pa. (54). 1908. F

*King, Irving, Ph. D., State University of Iowa, Iowa City, Iowa. (58). 1911. H L

*King, W. F., Chief Astronomer, Dominion Observatory, Ottawa, Canada. (55). 1908. A

*Kingsbury, Albert, 219 Stratford Ave., Pittsburg, Pa. (43). 1898. D

*Kingsbury, Benjamin Freeman, M. D., Ph. D., Cornell University, Ithaca, N. Y. (45). 1899. F

*Kingsbury, Joseph T., President and Professor of Chemistry, University of Utah, Salt Lake City, Utah. (57). 1909. C

*Kingsley, John Sterling, Sc. D., Professor of Biology, Tufts College, Mass. (52). 1904. F

Kinner, Hugo, M. D., 1103 Rutger St., St. Louis, Mo. (21). F H K

KINNEY, FRANCIS S., The Essex, New York, N. Y. (57).

Kinney, Frank F., E. E., Capital Elect. Eng. Co., Lansing, Mich. (60). D

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Kinnicutt, Mrs. Leonard Parker, 77 Elm St., Worcester, Mass. (62). C

KINSEY, OLIVER P., Vice-President, Valparaiso University, Valparaiso, Ind. (58). I

Kinsler, John H., Victoria, Texas. (52). G

*Kinsley, Carl, Associate Professor of Physics, University of Chicago, Chicago, Ill. (47). 1903. B

Kinsley, M. H., Superintendent of Schools, Hudson Co., 68 Van Reipen Ave., Jersey City, N. J. (60). L

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Kipper, H. Brunswick, Ph. D., Hotel Del Prado, Chicago, Ill. (60). C

Kirby, Cuthbert M., ... (58). C

Kirby, Gustavus T., 2 Wall St., New York, N. Y. (54). B D

Kirby, I. Henry, C. E., Roslyn, N. Y. (60). D

*Kirk, Charles Townsend, Ph. D., Assistant Professor of Geology, Normal College, New York, N. Y. (61). 1911. E

Kirk, Edward C., 554 South Lansdowne Ave., Lansdowne, Pa. (54).

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KIRKHAM, STANTON DAVIS, Canandaigua, N. Y. (61).

Kirkham, William Barri, Ph. D., Instructor of Biology, Yale University, New Haven, Conn. (60). F

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*Kirkpatrick, Edwin Asbury, State Normal School, Fitchburg, Mass. (49). 1905. L

Kirkpatrick, Samuel, M. D., Selma, Ala. (51). **K**

*Kirkwood, Joseph Edward, Ph. D., Professor of Botany and Forestry, University of Montana, Missoula, Mont. (51). 1905. **G**

Kirchner, William H., Professor of Geometry, University of Minnesota, Minneapolis, Minn. (62). **A D**

Kissell, Mary Lois, American Museum of Natural History, New York, N. Y. (58). **H**

Kite, George Lester, M. D., Trudeau, N. Y. (60). **F**

Kite, Miss Rebecca, High School, Jamaica Plain, Mass. (61). **F**

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Klein, Arthur Warner, M. E., Assistant Professor of Mechanical Engineering, Lehigh University, South Bethlehem, Pa. (60). **D**

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Kline, Linus Ward, Ph. D., Director, Training Department, State Normal School, Duluth, Minn. (62). **L**

Klipphahn, Ernest O. E., E. E., Pike, Cal. (60). **D**

Klotz, August H., care Klotz Machine Co., Sandusky, Ohio. (63).

Klotz, Oskar, M. D., Professor of Pathology and Bacteriology, University of Pittsburg, Pittsburg, Pa. (62). **K**

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Kluegel, Charles Henry, C. E., Hilo, Hawaii. (60). **D**

Knab, Frederick, U. S. National Museum, Washington, D. C. (53). **F**

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Knaus, Warren, McPherson, Kans. (58). **F**

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Knopf, Adolph, Ph. D., U. S. Geological Survey, Washington, D. C. (63). E

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*Knowlton, Frank P., M. D., Professor of Physiology, Syracuse University Medical College, Syracuse, N. Y. (58). 1911. K

Knowlton, John G. W., M. D., Exeter, N. H. (60). K

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Knox, George Platt, Assistant Superintendent of Instruction, St. Louis Public Schools, St. Louis, Mo. (53). I L

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Knupp, Noah D., State University of Iowa, Iowa City, Iowa. (62). G

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Kower, Hermann, C. E., University of California, Berkeley, Cal. (58). D

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Krause, Otto H., P. O. Box L, Jersey City, N. J. (50). B C D E

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*Ladd, George Trumbull, D. D., LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (60). 1911. **H**

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Lamb, Robert Scott, M. D., The Cecil, 15th and L Sts., Washington, D. C. (60). **K**

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Lambert, L. F., care The American Spawn Co., St. Paul, Minn. (62).

*Lambert, Preston A., Professor of Mathematics, Lehigh University, South Bethlehem, Pa. (41). 1896. **A**

*Lambert, Samuel Waldron, M. D., Dean, College of Physicians and Surgeons, New York, N. Y. (57). 1908. **K**

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Lampland, Carl Otto, Lowell Observatory, Flagstaff, Arizona. (62). **A**

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*Land, William Jesse Goad, Ph. D., Assistant Professor of Botany, University of Chicago, Chicago, Ill. (52). 1904. **G**

*Landacre, Francis Leroy, Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (53). 1906. **F**

*Landes, Henry, Professor of Geology, University of Washington, Seattle, Wash. (51). 1903. **E**

*Landis, William Weidman, Sc. D., Dickinson College, Carlisle, Pa. (50). 1906. **A**

Landman, Otto, M. D., 230 Michigan St., Toledo, Ohio. (60). **K**

Landon, Francis G., Staatsburg, N. Y. (50).

*Landreth, Olin Henry, C. E., Professor of Engineering, Union College, Schenectady, N. Y. (28). 1883. **D**

*Landrum, Robert Dallas, Lisk Manufacturing Co., Ltd., Canandaigua, N. Y. (58). 1911. **C D L**

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Lane, Earl Carlton, 2223 Atherton St., Berkeley, Cal. (60). **C**

Lane, Gardiner Martin, 44 State St., Boston, Mass. (60).

*Lane, Henry Higgins, Ph. D., Professor of Zoology, University of Oklahoma, Norman, Okla. (55). 1910. **F G**

Lane, Horace Manley, M. D., Caixa 14, Sao Paulo, Brazil, South America. (46). **K L**

Lane, J. Harold, 39 Catawba St., Boston, Mass. (60). **C**

Lang, John Frederick, M. D., 933 West Fayette St., Baltimore, Md. (60). **K**

Lange, John D., Room 45, 2 West 64th St., New York, N. Y. (49). **D I L**

Langeloth, Jacob, President, American Metal Co., Ltd., New York, N. Y. (57).

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Langfeld, Herbert Sidney, Harvard University, Cambridge, Mass. (63). **H L**

Langguth, J. William, 1828 Arthur Ave., Bronx, New York, N. Y. (60). **A**

Langland, James, *Daily News* Office, Chicago, Ill. (58).

Langley, O. Velpeau, M. D., 514 Avenue A., Opelika, Ala. (60). **K**

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*Langsdorf, Alexander Suss, Dean, School of Engineering and Professor of Electrical Engineering, Washington University, St. Louis, Mo. (50). 1904. B D

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Lankford, Henry M., M. D., Leavenworth, Kans. (60). K

Lankford, John S., M. D., San Antonio, Tex. (60). K

Lansingh, Van Rensselaer, E. E., East 66th St. and Euclid Ave., Cleveland, Ohio. (60). D

Lantz, Miss Willie A., Teacher of Science, Woman's College, Frederick, Md. (54). F G

Lapham, Jesse Erwin, U. S. Department of Agriculture, Washington, D. C. (62). C G

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Larkin, John Charles, M. D., Hillsboro, Ohio. (54). K

Larned, Charles W., 1327 Park Ave., Baltimore, Md. (60).

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Lass, W. P., E. M., Treadwell, Alaska. (60). D

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Lavery, Charles J., M. D., Fort Pierre, S. D. (60). K
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Law, Benedict W., Collins, N. Y. (45). E
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Lawrence, Florus F., M. D., Chief of Staff and Surgeon, Lawrence Hospital, Columbus, Ohio. (53). K
Lawrence, George Alfred, M. D., 142 West 86th St., New York, N. Y. (57). H K
*Lawrence, Harry E., University of Rochester, Rochester, N. Y. (44). 1906. B
*Lawrence, James W., Professor of Mechanical Engineering, State Agricultural College, Fort Collins, Colo. (50). 1912. D
Lawrence, William Evans, Instructor in Botany, Oregon Agricultural College, Corvallis, Ore. (60). G
Lawrie, Harold N., E. M., 622 Worcester Building, Portland, Oregon. (58). D
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Lawton, William Henry, C. E., 24 Bellevue Ave., Newport, R. I. (60). D
Lay, Henry Champlin, C. E., E. M., U. S. Deputy Mineral Surveyor, Telluride, Colo. (50). E
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Leng, Charles William, 437 Columbia St., West New Brighton, Staten Island, N. Y. (54). F

*Lengfeld, Felix, Ph. D., Consulting and Manufacturing Chemist, 1804 Fillmore St., San Francisco, Cal. (51). 1904. C

*Lenher, Victor, Ph. D., Professor of Chemistry, University of Wisconsin, Madison, Wis. (52). 1904. C

Lenk, Walter S., care Lenk Wine Co., West Toledo, Ohio. (60). C

*Lennes, Nels Johann, Ph. D., Columbia University, New York, N. Y. (60). 1911. A

*Lennon, Prof. William H., State Normal School, Brockport, N. Y. (31). 1894. C H

Lenox, Lionel Remond, Professor of Analytical Chemistry, Leland Stanford Junior University, Stanford University, Cal. (63). C

*Leonard, Arthur Gray, Ph. D., Professor of Geology, University of North Dakota, University, N. D. (58). 1910. E

*Leonard, Ethel L., M. D., 335 Consolidated Realty Building, Los Angeles, Cal. (62). 1911. K

Leonard, Heman Burr, Ph. D., Asst. Professor of Mathematics. University of Oregon, Eugene, Ore. (60). A

Leonard, John William, 900 Ogden Ave., New York, N. Y. (51). I

Leonard, Ward H., M. D., 608 Southwest Boulevard, Kansas City, Mo. (60). K

Lerche, William, M. D., Lowry Arcade, St. Paul, Minn. (60). K

Lesh, B., Southport, N. C. (60). D

Lesher, Arthur L., 670 Broadway, New York, N. Y. (57).

Lesley, Robert W., 604 Pennsylvania Building, Philadelphia, Pa. (54). C

Leslie, George L., Director, Psychological Clinic, Los Angeles City Schools, Health Department, Los Angeles, Cal. (58). H

Lester, Charles Stanley, The Highlands, Washington, D. C. (62).

*Lester, Oliver Clarence, Ph. D., Professor of Physics, University of Colorado, Boulder, Colo. (58). 1911. A B

*Leuba, James Henry, Ph. D., Psychological Laboratory, Bryn Mawr College, Bryn Mawr, Pa. (58). 1911. H

*Levene, Phoebus Aaron Theodore, M. D., 230 West 139th St., New York, N. Y. (53). 1906. C K

Levensaler, Lewis A., E. M., Kennecott, via Valdez, Alaska. (60). D

*Leverett, Frank, 1724 So. University Ave., Ann Arbor, Mich. (37). 1891. E H I

LEVERETT, GEORGE V., 66 Beacon St., Boston, Mass. (60).

Levin, A. M., M. E., 910 Monadnock Building, Chicago, Ill. (60). D

Leviston, Prof. Irwen, 114 South St., Auburn, N. Y. (62). B E

*Levy, Ernest Coleman, M. D., 216 Shafer St., Richmond, Va. (54). 1906. C K

Levy, Louis Edward, 1424 No. 15th St., Philadelphia, Pa. (62).

*Lewis, Albert Buell, Field Museum of Natural History, Chicago, Ill. (58). 1909. H

Lewis, Bertha, M. D., Box 23, Bryn Mawr, Pa. (54). I K L

Lewis, Charles Edward, Ph. D., Experiment Station, Orono, Me. (60). G

LEWIS, CLARENCE MCKENZIE, care Wm. Salomon & Co., 25 Broad St., New York, N. Y. (47). D

Lewis, Daniel C., Millville, N. J. (57). C

*Lewis, E. Percival, Ph. D., Professor of Physics, University of California Berkeley, Cal. (53). 1905. B

*Lewis, Frederic T., M. D., 76 Oxford St., Cambridge, Mass. (60). 1911. K

Lewis, George Smith, 746 State St., Springfield, Mass. (44). G

*Lewis, Gilbert Newton, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (60). 1910. C

Lewis, Lieut-Col. I. N., U. S. A., Hotel San Reno, Central Park West, New York, N. Y. (58). D

Lewis, Dr. Isaac McKinney, University of Texas, Austin, Texas. (61). G

Lewis, Ivey Foreman, Ph. D., Professor of Biology, Randolph-Macon College, Ashland, Va. (60). 1911. G

*Lewis, Joseph Volney, Hertzog Hall, Rutgers College, New Brunswick, N. J. (45). 1900. C E

Lewis, Paul A., M. D., The Henry Phipps Institute, 238 Pine St., Philadelphia, Pa. (62). K

Lewis, Ransome T., C. E., 412 West Clinton St., Elmira, N. Y. (60). D

Lewis, Robert S., E. M., Box 763, Stanford University, Cal. (60). D

Lewis, Rollin C. W., M. E., Yale and Towne Manufacturing Co., Stamford, Conn. (60). D

*Lewis, Warren Harmon, M. D., Associate Professor of Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1909. K

*Lewis, Wilfred, President, The Tabor Manufacturing Co., 5901 Drexel Road, Philadelphia, Pa. (51). 1906. D

Lewisohn, Adolph, 9 West 57th St., New York, N. Y. (57).

Lewisohn, Julius A., E. M., 9 West 57th St., New York, N. Y. (60). D

Lewton, Frederick Lewis, Takoma Park, D. C. (54). C F G I

*Lewton-Brain, Laurence, Director, Division of Pathology and Physiology, H. S. P. A. Experiment Station, Honolulu, Hawaii. (55). 1911. G

Libbey, Frederick A., 4 East 81st St., New York, N. Y. (51).

*Libbey, William, Sc. D., Professor of Physical Geography, Princeton University, Princeton, N. J. (29). 1887. E

Libby, George W., M. D., Traders Block, Spokane, Wash. (60). K

Libman, Emanuel, M. D., 180 East 64th St., New York, N. Y. (60). K

*Lichtenthaeler, Robert A., P. O. Box 112, Rhode Island Agricultural Experiment Station, Kingston, R. I. (58). 1911. B C E

Lichthardt, G., Jr., 1800 Capitol Ave., Sacramento, Cal. (50). C

Lichty, Daniel, M. D., Masonic Temple, Rockford, Ill. (51). K

*Lichty, David Martin, Ph. D., Chemical Laboratory, Ann Arbor, Mich. (58). 1911. C

Lieb, John William, Jr., 55 Duane St., New York, N. Y. (57).

Lieber, Hugo, 381 4th Ave., New York, N. Y. (53). C

Liebmann, Charles Joseph, 36 Forrest St., Brooklyn, N. Y. (58).

*Life, Andrew C., Assistant Professor of Biology, University of Southern California, Los Angeles, Cal. (60). 1911. G

Lightfoot, Thomas Montgomery, Assistant Professor of Physical Science, Central High School, Philadelphia, Pa. (51). G

Lightner, Calvin R., M. D., Metropolitan Building, St. Louis, Mo. (53). K

Lihme, B., Chemical Engineer, La Salle, Ill. (57). C

*Lillie, Frank R., Ph. D., Professor of Zoology and Embryology, University of Chicago, Chicago, Ill. (50). 1901. F

*Lillie, Ralph Stayner, Ph. D., Zoological Laboratory, University of Pennsylvania, Philadelphia, Pa. (58). 1909. F K

*Lincoln, Francis Church, Ph. D., Department of Mining Engineering, University of Illinois, Urbana, Ill. (57). 1911. D E

Lincoln, John J., E. M., Elkhorn, W. Va. (60). D

Lindahl, Josua, Ph. D., 5700 Peoria St., Chicago, Ill. (55). F

Lindenkohl, Henry, U. S. Coast and Geodetic Survey, Washington, D. C. (47). D

*Lindenthal, Gustav, C. E., 68 William St., New York, N. Y. (37). 1891. D F I

*Lindgren, Waldemar, U. S. Geological Survey, Washington, D. C. (53). 1906. E

Lindley, Curtis H., E. M., 2000 Pacific Ave., San Francisco, Cal. (60). D

*Lindley, Ernest Hiram, Ph. D., Professor of Psychology, Indiana University, Bloomington, Ind. (51). 1905. H

Lindsay, Alexander M., Rochester, N. Y. (41).

Lindsay, John D., 34 West 11th St., New York, N. Y. (57). I

*Lindsay, Samuel McCune, Ph. D., Professor of Social Legislation, Columbia University, New York, N. Y. (54). 1906. I L

Lindsay, Walter, M. D., Huntington, L. I., N. Y. (60). K

*Lindsey, Edward, Warren, Pa. (48). 1906. H I

*Lindsey, Joseph B., Ph. D., 47 Lincoln Ave., Amherst, Mass. (58). 1911. C K

*Lines, Edwin Fuller, Fayetteville, Ark. (54). 1911. E

Linford, James Henry, President, Brigham Young College, Logan, Utah. (52). F G

*Ling, Charles Joseph, Ph. D., Professor of Physics and Astronomy, Allegheny College, Meadville, Pa. (50). 1901. A B

*Ling, George Herbert, Ph. D., University of Saskatchewan, Saskatoon, Can. (52). 1906. A

LINHART, SAMUEL BLACK, D. D., Secretary and Professor of Biblical Literature and Ethics, University of Pittsburg, Pittsburg, Pa. (56).

Link, George K. K., Adj. Professor of Agricultural Botany, University of Nebraska, Lincoln Nebr. (63). G

Link, J. Joseph, M. D., Metropolitan Building, St. Louis, Mo. (58). K

Link, Joseph A., M. D., Springfield, Ohio. (60). K

Link, Theodore Carl, Carleton Building, St. Louis, Mo. (51). B E F G H K

*Linn, Alvin Frank, Ph. D., Professor of Chemistry and Mineralogy, Wittenberg College, Springfield, Ohio. (50). 1901. C

Linney, William H., E. M., 2805 West Mission St., Spokane, Wash. (60). D

*Linton, Edwin, Ph. D., Professor of Biology, Washington and Jefferson College, Washington, Pa. (51). 1905. F

*Linville, Henry Richardson, Ph. D., 6 Madison Ave., Jamaica, N. Y. (49). 1906. F L

Lipke, Joseph, Massachusetts Institute of Technology, Boston, Mass. (58). A

Lipman, Charles B., Ph. D., Assistant Professor of Soil Chemistry and Bacteriology, University of California, Berkeley, Cal. (62). C

Lipman, F. L., Vice-President, Wells Fargo Nevada National Bank, San Francisco, Cal. (58). I

Lipman, Jacob Goodale, Ph. D., Director, N. J. Agricultural Experiment Station, New Brunswick, N. J. (63). G

Lippincott, Warren B., 345 Lafayette St., Denver, Colo. (60). C

Lisboa, Miguel Arrojado Ribeiro, E. M., Rua Santos Dumond 3, Petropolis, Rio de Janeiro, Brazil, S. A. (60). D

Lischer, Benno Edward, M. D., 504 Humboldt Building, St. Louis, Mo. (53). K

*Littell, Frank B., Professor of Astronomy, U. S. Naval Observatory, Washington, D. C. (49). 1903. A

Litterer, William, M. D., care Vanderbilt Medical College, Nashville, Tenn. (60). K

Litterst, Joseph, 203 East Lehman St., Lebanon, Pa. (60). C

*Little, Arthur D., Chemist, 93 Broad St., Boston, Mass. (54). 1906. C

Little, C. A., R. D. 1, Elyria, Ohio. (60). C

Little, Clarence C., Goddard Ave., Brookline, Mass. (61). F

Little, Homer P., Ph. D., Colby College, Waterville, Me. (61). E

*Littlehales, George Washington, 2132 Le Roy Place, Washington, D. C. (52). 1904. A B D E

Livermore, Thomas Leonard, Jr., E. M., Telluride, Colo. (58). D

Livermore, Col. William R., U. S. A., Retired, 17 Hereford St., Boston, Mass. (61). A B D

*Livingston, Burton Edward, Ph. D., Johns Hopkins University, Baltimore, Md. (53). 1906. G

Livingston, Luther S., Scarsdale, N. Y. (57).

Livingstone, Colin H., 1249 Kenyon St., Washington, D. C. (62).

*Lloyd, Francis Ernest, Professor of Botany, Alabama Polytechnic Institute, Auburn, Ala. (48). 1901. G

*Lloyd, John Uri, Ph. D., LL. D., care The Lloyd Library, 224 West Court St., Cincinnati, Ohio. (38). 1890. C F

*Lloyd, Morton G., Ph. D., 507 Marquette Building, Chicago, Ill. (52). 1906. B C I

Lloyd, Thomas P., M. D., Shreveport, La. (60). K

*Lochhead, William, Professor of Biology, Macdonald College, Quebec, Canada. (51). 1906. F G

Lockwood, Cornelius Wygant, Stuyvesant High School, 345 East 15th St., New York, N. Y. (51). B D L

*Lockwood, Edwin Hoyt, Ph. D., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. (50). 1912. D

Lockwood, Homer N., The Kenesaw, 16th and Irving Sts., Washington, D. C. (63). E

*Locy, William Albert, Sc. D., Ph. D., Professor of Zoology, Northwestern University, Evanston, Ill. (58). 1910. F

Lodge, Prof. Richard Walley, Redlands, Cal. (62). D

Lodholz, Edward, M. D., Demonstrator of Physiology, University of Pennsylvania, Philadelphia, Pa. (53). K

*Loeb, Hanau W., M. D., 537 North Grand Ave., St. Louis, Mo. (60). 1911. K

*Loeb, Jacques, M. D., Sc. D., Ph. D., Rockefeller Institute, New York, N. Y. (62). 1911. K

*Loeb, Leo, M. D., Director, Pathological Dept., St. Louis Skin and Cancer Hospital, St. Louis, Mo. (51). 1905. F K

Loeb, Milton Charles, 336 York St., Jersey City, N. J. (60). C

*Loeb, Morris, Ph. D., 273 Madison Ave., New York, N. Y. (36). 1889. B C

*Loevenhart, Arthur S., M. D., Professor of Pharmacology and Toxicology, University of Wisconsin, Madison, Wis. (60). 1911. C F K

*Loew, Oscar, Ph. D., München Hygienic Institute, München, Germany. (49). 1900. K

*Loewenstein, Louis C., Ph. D., 16 Wolcott Road, Lynn, Mass. (54). 1904. D

Loewy, Benno, 206 and 208 Broadway, New York, N. Y. (41).

Logan, Frank G., 2919 Prairie Ave., Chicago, Ill. (42). H

Loguin, Alexander J., E. E., General Delivery, West Allis Station, Milwaukee, Wis. (58). D

Lomb, Adolph, 537 St. Paul St., Rochester, N. Y. (41).

Lomb, Henry Charles, 281 Barrington St., Rochester, N. Y. (43). B

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Long, David D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (62). G

Long, Eleanor Tatum, Kasota Ave., Avondale, Cincinnati, Ohio. (63). E

Long, Francis A., M. D., Madison, Nebr. (60). K

Long, Henry C., 617 Tremont Building, Boston, Mass. (60).

*Long, John Harper, Sc. D., Professor of Chemistry, Northwestern University Medical School, 2421 Dearborn St., Chicago, Ill. (41). 1895. C

Long, Joseph A., Ph. D., Instructor in Zoology, University of California, Berkeley, Cal. (61). F

Longaker, Daniel, M. D., 1402 North 16th St., Philadelphia, Pa. (53). K

Longcope, Warfield T., M. D., 680 Madison Ave., New York, N. Y. (62). K

*Longden, A. C., Ph. D., Professor of Physics, Knox College, Galesburg, Ill. (49). 1901. B

*Longstreth, Morris, M. D., 1416 Spruce St., Philadelphia, Pa. (54). 1906. K

Longyear, Helen McGraw, ... (61). B I

Lonsdale, James, M. D., Dale, Iowa. (60). K

*Loomis, Elmer Howard, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (54). 1906. B

Loomis, Frederic Brewster, Ph. D., Assistant in Zoology, Amherst College, Amherst, Mass. (50). F

Loomis, Howard, Chemist, Department of Agronomy, So. Dakota State College, Brookings, S. Dak. (62). C

Loomis, Seymour C., 69 Church St., New Haven, Conn. (60). I

Looney, Wesley A., Frick Annex, Pittsburgh, Pa. (63). C

Lord, Herbert Gardiner, Professor of Philosophy, Columbia University, New York, N. Y. (58). H

Lord, John Prentiss, M. D., 3421 Farnam St., Omaha, Nebr. (55). K

Lorenz, Miss Annie, 96 Garden St., Hartford, Conn. (62). G

Lorini, Raffaele, M. D., Hotel del Coronado, Coronado Beach, Cal. (60). K

Lory, Charles Alfred, LL. D., President, Colorado Agricultural College, Fort Collins, Colo. (62). L

Lo Sardo, Antonino, 45 West 8th St., New York, N. Y. (58). C

Lothrop, Alfred P., Livingston Hall, 1116 Amsterdam Ave., New York, N. Y. (60). C

*LOUDERBACK, GEORGE DAVIS, Ph. D., Associate Professor of Geology, University of California, Berkeley, Cal. (50). 1906. E

*Lough, James Edwin, Ph. D., New York University, Washington Square, New York, N. Y. (50). 1901. G H I

*Loughlin, Gerald Francis, Ph. D., Instructor in Geology, Massachusetts Institute of Technology, Boston, Mass. (57). 1911. E

*Loughridge, Robert Hills, Ph. D., Professor of Agricultural Chemistry, University of California, Berkeley, Cal. (21). 1874. C E

Lounsbury, Charles Pugsley, Department of Agriculture, Cape Town, South Africa. (52). F

*Lounsbury, William C., Superintendent, Filtration Plant, 1518 Tower Ave., Superior, Wis. (58). 1911. C

Louria, Leon, M. D., 249 Hewes St., Brooklyn, N. Y. (60). K

Love, A. Cavitt, care Beaumont Irrigation Co., Beaumont, Tex. (58). D

*Love, Edward G., 80 East 55th St., New York, N. Y. (24). 1882. C

*Lovejoy, Arthur Oncken, Ph. D., Professor of Philosophy, Johns Hopkins University, Baltimore, Md. (58). 1911. H

Lovejoy, Frank William, M. E., 22 Seneca Parkway, Rochester, N. Y. (60). D

Lovejoy, J. R., Vice-President, General Electric Co., Schenectady, N. Y. (50). D

*Lovelace, Benjamin Franklin, Ph. D., Associate Professor of Chemistry, Johns Hopkins University, Baltimore, Md. (60). 1911. C

LOVELAND, HORACE HALL, M. D., Republic, Mich. (51). K

Lovell, John H., Waldoboro, Me. (58). F G

*Lovett, Edgar Odell, Ph. D., LL. D., President, The Rice Institute, Houston, Tex. (51). 1902. A L

Low, A. A., Columbia Heights, Brooklyn, N. Y. (43). A

*Low, Albert Peter, LL. D., Geological Survey of Canada, Ottawa, Canada. (60). 1910. E

Low, Clarence F., care Liverpool and London and Globe Insurance Co., New Orleans, La. (52). F G H I K L

*Low, Hon. Seth, LL. D., 30 East 64th St., New York, N. Y. (29). 1890. I

Low, Wilson H., 220 South 38th Ave., Omaha, Nebr. (60). C

Lowater, Frances, Ph. D., Head, Department of Physics, Rockford College, Rockford, Ill. (62). A B

*Lowber, James William, Sc. D., Ph. D., LL. D., 113 East 18th St., Austin, Tex. (50). 1906. A E H I L

Lowe, Ephraim Noble, M. D., Director, Geological Survey of Mississippi, Jackson, Miss. (55). E

Lowell, Frederick E., 53 State St., Boston, Mass. (60).

*Lowell, Percival, LL. D., Professor of Astronomy, Massachusetts Institute of Technology, Boston, Mass. (36). 1896. A

Lowell, Russell C., 420 Hope St., Providence, R. I. (51). A D L

*Lowenstein, Arthur, 647 East 62d St., Chicago, Ill. (58). 1910. C

Lower, William E., M. D., 6810 Euclid Ave., Cleveland, Ohio. (58). K

Loweth, C. F., Chief Engineer, C. M. and St. P. Ry., Railway Exchange, Chicago, Ill. (62). D

*Lowie, Robert Harry, Ph. D., 1216 Boston Road, Bronx, New York, N. Y. (60). 1910. H

Lowman, William R., M. D., Orangeburg, S. C. (60). K

Lucas, Anthony F., E. M., 1406 16th St. N. W., Washington, D. C. (50). D E

*Lucas, Daniel Ralph, M. D., Ph. D., 601 West 168th St., New York, N.Y. (57). 1908. C K

Luce, Frank W., 3814 Prospect Ave., Cleveland, Ohio. (63).

Lucius, Albert, C. E., 607 Potter Building, 38 Park Row, New York, N. Y. (58). D

*Lucke, Charles Edward, Ph. D., Professor of Mechanical Engineering, Columbia University, New York, N. Y. (60). 1912. D

Luckey, George W. A., Ph. D., 1439 R St., Lincoln, Nebr. (56). H L

Ludlow, Clara Southmayd, Ph. D., 603, The Ethelhurst, 15th and L Sts. N. W., Washington, D. C. (54). F K

*Ludlow, Col. Henry Hunt, U. S. A., Coast Artillery Corps, Fort Caswell, N. C. (54). 1906. A D

Ludlow, Col. Jacob Lott, C. E., Winston-Salem, N. C. (50). A B D

Luebkert, Otto, American Audit Co., Colorado Building, Washington, D. C. (50). G

Luehrs, Daniel M., M. E., care McCreery Engineering Co., Toledo, Ohio. (58). D

Luginbill, Philip, Experiment Station, Purdue University, Lafayette, Ind. (62).

*Lukens, Herman T., Ph. D., 330 Webster Ave., Chicago, Ill. (55). 1911. E L

Lum, Miss Elizabeth S., Elizabeth, N. J. (57).

Lumley, W. Alison, M. D., ... (60). K

Lummis, William, 45 Wall St., New York, N. Y. (57).

Lund, Robert Leathan, 5968 West Cabanne Place, St. Louis, Mo. (53). D

Lundholm, Eric M., M. D., 677 University Ave., St. Paul, Minn. (58). K

*Lundin, Carl A. R., care Messrs. Alvan Clark and Sons, Cambridgeport, Mass. (47). 1906. A

*Luquer, Lea McIlvane, Ph. D., Adjunct Professor of Mineralogy, Columbia University, New York, N. Y. (49). 1902. E

*Lusk, Graham, Sc. D., Ph. D., 11 East 74th St., New York, N. Y. (54). 1906. K

Luther, Miss Agnes Vinton, 151 Scotland Road, South Orange, N. J. (47). E

*Lutman, Benjamin Franklin, Ph. D., 83 Brooks Ave., Burlington, Vt. (60). 1911. G

Lutz, Anne M., Cytologist, Station for Experimental Evolution, Cold Spring Harbor, Long Island, N. Y. (54). F

*Lutz, Frank Eugene, Ph. D., American Museum of Natural History, New York, N. Y. (53). 1909. F

Lybrand, Mrs. William M., 362 Riverside Drive, New York, N. Y. (54). I

*Lyford, Hon. Edwin F., Springfield, Mass. (33). 1896. B C H

*Lyle, Col. David Alexander, U. S. A., care Mr. Frank Berry, Depot Quartermaster's Office, Philadelphia, Pa. (28). 1880. D

Lyman, Arthur T., P. O. Box 1717, Boston, Mass. (60).

*LYMAN, BENJAMIN SMITH, E. M., 708 Locust St., Philadelphia, Pa. (15). 1905. E

Lyman, Chester Wolcott, International Paper Co., 30 Broad St., New York, N. Y. (50). I

*Lyman, Elmer A., Professor of Mathematics, Michigan State Normal School, Ypsilanti, Mich. (53). 1906. A

*Lyman, George Richard, Ph. D., Assistant Professor of Botany, Dartmouth College, Hanover, N. H. (57). 1909. G

Lyman, Henry Herbert, 74 McTavish St., Montreal, Canada. (29). E F

Lyman, James A., Claremont, Cal. (60). C

Lyman, John F., Asso. Professor of Agricultural Chemistry, Ohio State University, Columbus, Ohio. (62). C G

Lyman, Rufus Ashley, M. D., University of Nebraska, Lincoln, Nebr. (60). K

*LYMAN, THEODORE, Ph. D., Assistant Professor of Physics, Jefferson Laboratory, Harvard University, Cambridge, Mass. (55). 1907. B

Lynch, William H., Springfield State Normal School, Springfield, Mo (52). I

Lynde, Carleton J., Ph. D., Macdonald College, Quebec, Can. (62).

Lyon, Darwin O., Department of Psychology, Columbia University, New York, N. Y. (63). H

Lyon, David G., Harvard University, Cambridge, Mass. (60).

*Lyon, Elias Potter, Ph. D., Professor of Physiology, St. Louis University Medical School, St. Louis, Mo. (58). 1911. F K L

*Lyon, Harold L., Ph. D., H. S. P. Association, Honolulu, Hawaii. (60). 1911. K

Lyon, Leon Elie, C. E., P. O. Box 283, Norfolk, Va. (61). D

*Lyon, Marcus Ward, Jr., M. D., 48 V St. N. W., Washington, D. C. (53). 1911. F K

Lyon, Ralph Albert, Hawaiian Fertilizer Co., Honolulu, Hawaii. (58). C

Lyon, Scott Cary, Tulane University, New Orleans, La. (55). B C

*Lyon, Thomas Lyttleton, Ph. D., Professor of Experimental Agronomy, Cornell University, Ithaca, N. Y. (56). 1911. C

*Lyons, Albert Brown, M. D., 102 Alger St., Detroit, Mich. (50). 1911. C G

*Lyons, Robert Edward, Ph. D., Professor of Chemistry, University of Indiana, Bloomington, Ind. (51). 1906. C

*Lythgoe, Hermann C., 501, State House, Boston, Mass. (58). 1911. C

Maas, Philip, Professor of Chemistry, Central High School, Philadelphia, Pa. (60). C

*Mabery, Charles Frederick, Sc. D., Professor of Chemistry, Case School of Applied Science, Cleveland, Ohio. (29). 1881. C

Mabee, Professor Fred C., Chemical Laboratory, Shanghai Baptist College, Shanghai, China. (61). C

McAdam, Dunlap J., Ph. D., Professor of Engineering, Washington and Jefferson College, Washington, Pa. (51). D

McAfee, A. McD., Ph. D., care The Texas Co., Bayonne, N. J. (63).

*MacAlister, James, LL. D., President, Drexel Institute, Philadelphia, Pa. (54). 1906. I L

McAllister, Addams Stratton, Ph. D., 239 West 39th St., New York, N. Y. (60). D

*McAllister, Cloyd North, Ph. D., Warrensburg, Mo. (52). 1906. H I K

McAllister, Frederick, Ph. D., Instructor in Botany, Cornell University, Ithaca, N. Y. (62). G

McAllister, W. B., 2165 East 31st St., Cleveland, Ohio. (63).

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McBean, Duncan D., 1107–11 Park Row Building, New York, N. Y. (58). D

McBeth, Ira Guy, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). G

Macbeth, George Alexander, 717 Amberson Ave., Pittsburg, Pa. (50). C

*McBride, James Harvey, M. D., Pasadena, Cal. (51). 1909. K

*Macbride, Thomas Huston, Ph. D., 728 East Washington St., Iowa City, Iowa. (38). 1890. E G

McBryde, Charles Neil, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (62). F

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McCall, Prof. Arthur Gillett, 141 West 11th Ave., Columbus, Ohio. (62). G

McCalla, Albert, Ph. D., 51 East 22d St., Chicago, Ill. (58). A B G

McCallie, James Park, Ph. D., Highland Park Station, Chattanooga, Tenn. (57). A

McCallie, Samuel Washington, State Geologist of Georgia, Atlanta, Ga. (62). E

*MacCallum, William George, M. D., 981 Madison Ave., New York, N. Y. (60). 1910. K

McCampbell, Eugene Franklin, M. D., Ph. D., Ohio State University, Columbus, Ohio. (63). K

McCann, Thomas H., C. E., Second National Bank Building, Hoboken, N. J. (60). D

McCarthy, Maurice Lawrence, 30 Maple St., Haverhill, Mass. (58). C D

*McCaskey, Hiram Dryer, U. S. Geological Survey, Washington, D. C. (55). 1907. E

McCastline, William H., M. D., Instructor in Physical Education, Teachers College, Columbia University, New York, N. Y. (56). K

*McCaughey, Vaughan, Professor of Botany, College of Hawaii, Honolulu, Hawaii. (58). 1911. H I L

*McCaughey, William J., 42 Channing St., Washington, D. C. (60). 1911. C

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McClelland, Silas E., M. D., Decatur, Ill. (60). K

McClenahan, Francis Mitchell, Professor of Chemistry, Maryville College, Maryville, Tenn. (62). C

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*McClung, Robert Kenning, Sc. D., Professor of Physics, University of Manitoba, Winnipeg, Canada. (56). 1908. B

McClure, James, Instructor in Physics, Vanderbilt University, Nashville, Tenn. (62). B

McClure, O. D., M. E., Ishpeming, Mich. (60). D

McClure, Samuel Sidney, 255 Fourth Ave., New York, N. Y. (57).

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*McCollum, Elmer Verner, Ph. D., Assistant Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (58). 1911. C

McComas, Henry Clay, Jr., Princeton University, Princeton, N. J. (63). H

McConnell, A. H., ... (60). A

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McConnell, Wilbur Ross, Assistant Professor of Zoology, Pennsylvania State College, State College, Pa. (57). F

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McCormack, Joseph N., M. D., Bowling Green, Ky. (60). K

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McCracken, Isabel, Ph. D., Stanford University, Cal. (54). F K

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McDonough, James Albert, C. E., U. S. Engineer Office, Wheeling, W. Va. (60). D

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McGiffert, John R., M. E., care Clyde Iron Works, Duluth, Minn. (60). D
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MacGregor, Walter, M. E., 430 West Grand Boulevard, Detroit, Mich. (60). D
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McGrew, William Raymond, M. D., Stuart, Iowa. (60). K
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McHatton, Thomas Hubbard, Adjunct Professor of Horticulture, University of Georgia, Athens, Ga. (58). G L
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Mack, J. L., Rock Mart, Ga. (60). C
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McKay, John S., Ph. D., care Packer Collegiate Institute, Brooklyn, N. Y. (52).
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*MacLean, George Edwin, Ph. D., LL. D., President, State University of Iowa, Iowa City, Iowa. (52). 1904. L

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Martin, William J., Davidson, N. C. (60). C

Martin, William Lyon, Augusta, Ga. (51). G

Marvel, Emery, M. D., 1801 Pacific Ave., Atlantic City, N. J. (60). K

*Marvin, Charles Frederick, U. S. Weather Bureau, Washington, D. C. (39). 1892. B

*Marvin, Frank Olin, Dean, School of Engineering, University of Kansas, Lawrence, Kans. (35). 1894. D

Marvin, Joseph B., M. D., LL. D., 1385 4th Ave., Louisville, Ky. (51). I K

Maschke, Alfred S., M. D., 326 Osborne Building, Cleveland, Ohio. (63). K

Mason, Edward J. K., E. E., Suffield, Conn. (60). D

Mason, Herbert Warren, 200 Devonshire St., Boston, Mass. (53). B C D

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Mason, Miss Nellie M., Teacher of Science, Abbot Academy, Andover, Mass. (50). B C G

*Mason, William Pitt, M. D., LL. D., Rensselaer Polytechnic Institute, Troy, N. Y. (31). 1886. C

*Mast, Samuel Ottmar, Ph. D., Associate Professor of Zoology, Johns Hopkins University, Baltimore, Md. (52). 1909. F G

Masters, Harris Kennedy, E. M., Marion, Ky. (60). D

Masury, Fred L. M., President, Masurite Explosive Co., Masury, Ohio. (58). C D

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Matausch, Ignaz, American Museum of Natural History, New York, N. Y. (57).

Mateer, Horace N., M. D., Ph. D., Professor of Biology, University of Wooster, Wooster, Ohio. (36). E F K

Matheny, William Alderman, Ph. D., Professor of Civic Biology and Botany, Ohio University, Athens, Ohio. (61). G H

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Matheson, Robert, 205 Fairmount Ave., Ithaca, N. Y. (58). F

Matheson, William J., 182 Front St., New York, N. Y. (54). I

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Mathews, Hubert Berton, Brookings, S. Dak. (58). B

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Mathews, Miss Mary Elizabeth, 149 State St.. Painesville, Ohio. (41). G

Matlack, Charles, "Hidden Hearth," Matunuck, R. I. (27). I

*Matson, George Charlton, U. S. Geological Survey, Washington, D. C. (60). 1911. E

Matson, Ralph C., M. D., 1021 Corbett Building, Portland, Ore. (60). K

*Matthes, Francois Emile, U. S. Geological Survey, Washington, D. C. (52). 1909. D E

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Mattill, Henry A., University of Utah, Salt Lake City, Utah. (60). C

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*Maxon, William Ralph, U. S. National Museum, Washington, D. C. (49). 1906. G

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Mayer, Edwin Charles, Assistant in Physics, Cornell University, Ithaca, N. Y. (60). B

Maynard, E. W., care E. I. du Pont Co., Senter, Mich. (60). C

*Maynard, T. Poole, Ph. D., Georgia Geological Survey, Atlanta, Ga. (61). 1911. E

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Mayo, Charles Horace, M. D., LL. D., Rochester, Minn. (63). K

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Mead, Charles A., 172 William St., Orange, N. J. (60). A

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*Merrill, Joseph Francis, Ph. D., Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah. (50). 1908. B D

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*Metcalf, Wilmot Vernon, Ph. D., Assistant Professor of Physics, Fisk University, Nashville, Tenn. (50). 1911. B C

*Metz, Abraham L., M. D., Professor of Chemistry, Medical Department, Tulane University, New Orleans, La. (55). 1909. C K

*Metzler, William H., Ph. D., Professor of Mathematics, Syracuse University, Syracuse, N. Y. (45). 1899. A L

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Meyers, Charles H., M. D., 1556 Elm St., Cincinnati, Ohio. (60). K

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Michael, Ellis LeRoy, Marine Biological Laboratory, La Jolla, Cal. (57). F

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*Michelson, Albert Abraham, Sc. D., Ph. D., LL. D., Head, Department of Physics, University of Chicago, Chicago, Ill. (26). 1879. B

*Michelson, Truman, Bureau of American Ethnology, Washington, D. C. (62). 1912. H

*Middlekauff, George Wiles, Ph. D., Bureau of Standards, Washington, D. C. (57). 1908. B

Middleton, Austin R., 3640 Elm Ave., Baltimore, Md. (63). F G

Milbrath, David Gallus, North Dakota Agricultural College, Fargo, N. D. (62). G

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Millar, John M., Escanaba, Mich. (50). E G

Millen, John D., E. M., General Manager, Mt. Bischoff Tin Mining Co. Waratah, Tasmania. (60). C D

*Miller, Adam Marion, M. D., College of Physicians and Surgeons, Columbia University, New York, N. Y. (60). 1911. K

*Miller, Arthur M., Professor of Geology and Zoology, State University of Kentucky, Lexington, Ky. (45). 1898. E F

*Miller, Benjamin LeRoy, Ph. D., Lehigh University, South Bethlehem, Pa. (50). 1907. E

Miller, C. R., 21 East 9th St., New York, N. Y. (57).

Miller, Charles Winthrop, Shawnee-on-Delaware, Pa. (60). F

Miller, D. McL., M. D., Oconomowoc, Wis. (60). K

*Miller, Dayton Clarence, Sc. D., Professor of Physics, Case School of Applied Science, Cleveland, Ohio. (44). 1898. A B

*Miller, Edgar C. L., M. D., University College of Medicine, Richmond, Va. (58). 1911. K

MILLER, EMERSON R., Professor of Pharmaceutical Chemistry, Alabama Polytechnic Institute, Auburn, Ala. (52). C

Miller, Eric Rexford, Weather Bureau, Madison, Wis. (58). A B

Miller, Ernest A., 113 North Tioga St., Ithaca, N. Y. (60). A

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Miller, Fred Anderson, 1939 Ashland Ave., Indianapolis, Ind. (63). G,

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*Miller, George Abram, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (46). 1898. A

Miller, George Norton, M. D., 811 Madison Ave., New York, N. Y. (50). H I K

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Miller, Henry Lanark, C. E., Casilla 117, Mendoza, Argentine Republic, S. A. (60). D

Miller, James Shannon, Professor of Mathematics, Emory and Henry College, Emory, Va. (51). A B

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*Miller, John Craig, M. D., Professor of Natural Science, Lincoln University, Pa. (50). 1906. B C

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Miller, Prof. Merritt Finley, University of Missouri, Columbia, Mo. (58).

Miller, Newman, Director, The University of Chicago Press, 5515 Woodlawn Ave., Chicago, Ill. (58). E I

Miller, Newton, Ph. D., Asst. Professor of Zoology, Clark University, Worcester, Mass. (63). F

Miller, Shirley Putnam, Zoologist, South Dakota State College, Brookings, S. Dak. (58). F

*Miller, W. Lash, Ph. D., Professor of Physical Chemistry, University of Toronto, Toronto, Canada. (60). 1910. C

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*Miller, William Snow, M. D., Associate Professor of Anatomy, University of Wisconsin, Madison, Wis. (42). 1894. F

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Mills, Frank Smith, Professor of Geology, Province Lake, N.H. (52). D E

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Mills, William Park, M. D., Box 58, Missoula, Mont. (52). K

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Mitchell, William Francis, M. D., Lancaster, Mo. (51). H

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Moore, Robert, Consulting Engineer, 61 Vandeventer Place, St. Louis, Mo. (51). D I

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Moore, William, School of Agriculture, Potschefstroom, Transvaal, So. Africa. (60). G

*Moore, Willis Luther, LL. D., Chief, Weather Bureau, U. S. Department of Agriculture, Washington, D. C. (44). 1897. B E

*Moorehead, Warren King, Curator of Museum, Phillips Academy, Andover, Mass. (38). 1890. H

*More, Louis Trenchard, Ph. D., Professor of Physics, University of Cincinnati, Cincinnati, Ohio. (58). 1910. B

Morgan, A. C., U.S. Department of Agriculture, Washington, D. C. (54). F

Morgan, Ann H., 13 East Ave., Ithaca, N. Y. (63). F

Morgan, Arthur E., C. E., 610 Goodwyn Institute Building, Memphis, Tenn. (62). D

*Morgan, Prof. H. A., University of Tennessee, Knoxville, Tenn. (50). 1906. F

*Morgan, J. Livingston R., Ph. D., Professor of Physical Chemistry, Columbia University, New York, N. Y. (58). 1910. C

*Morgan, James Dudley, M. D., 919 15th St. N. W., Washington, D. C. (60). 1911. K

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*Morgan, William Conger, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (52). 1906. C L

Morgan, William Fellowes, Short Hills, N. J. (27). I L

Moriarta, Douglas C., M. D., 511 Broadway, Saratoga Springs, N. Y. (60). K

Morison, Robert S., 17 Farrar St., Cambridge, Mass. (60).

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*Morrell, Albro David, Professor of Biology, Hamilton College, Clinton, N. Y. (60). 1911. F

Morrey, Charles Bradfield, M. D., Professor of Bacteriology, Ohio State University, Columbus, Ohio. (48). F

*Morrill, Austin W., Ph. D., Arizona Horticultural Commission, Phoenix, Ariz. (54). 1906. F

Morrill, Charles Herbert, Hyannis, Mass. (61). F

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Morrill, William C., E. E., 277 Broadway, New York, N Y. (58). D

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Morris, George E., 34 Appleton St., Waltham, Mass. (61).

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Morris, Richard, Ph. D., Professor of Mathematics, Rutgers College, New Brunswick, N. J. (63). A
Morris, Wilson C., Ph. D., Professor of Physics, State Normal School, Warrensburg, Mo. (60). A B
Morrissey, John P., S. J., St. Xavier College, Cincinnati, Ohio. (63). C
Morrison, Alva, P. O. Box 2365, Boston, Mass. (60).
Morrison, Gilbert B., McKinley High School, St. Louis, Mo. (48). B D I L
Morrison, Henry C., Concord, N. H. (61).
Morrison, Thomas, Diamond Bank Building, Pittsburg, Pa. (51). D
Morrison, William B., M. D., 145 West Washington St., Hagerstown, Md. (60). K
*Morse, Edward Sylvester, Ph. D., Director, Peabody Museum, Salem, Mass. (18). 1874. F H
*Morse, Prof. Fred. Winslow, Amherst, Mass. (51). 1906. C
*Morse, Harry Wheeler, Ph. D., Assistant Professor of Physics, Jefferson Physical Laboratory, Cambridge, Mass. (58). 1910. B C
*Morse, Max W., Ph. D., Professor of Biology, Trinity College, Hartford, Conn. (51). 1911. F K
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Morse, William Clifford, Instructor in Geology, Ohio State University, Columbus, Ohio. (60). E
Morse, William H., 1937 Lagunia St., Santa Barbara, Cal. (60). G
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*Moseley, Edwin L., High School, Sandusky, Ohio. (34) 1902. E F G K
*Moser, Captain Jefferson Franklin, U. S. N., Retired, 85 2d St., San Francisco, Cal. (28). 1889. E
*Moses, Alfred Joseph, Ph. D., Professor of Mineralogy, Columbia University, New York, N. Y. (49). 1902. E
*Moses, Thomas Freeman, M. D., Worcester Lane, Waltham, Mass. (25). 1883. E H K
Mosher, Charles D., 30 Church St., New York, N. Y. (53). D
Mott, Howard Schenck, 100 Broadway, New York, N. Y. (57). I
Mott, William Elton, C. E., Carnegie Technical Schools, Pittsburg, Pa. (60). D
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Motter, William D. B., Jr., E. M., care Southwest Smelting and Refining Co., Orogrande, N. M. (60). D

*Mottier, David Myers, Ph. D., Professor of Botany, University of Indiana, Bloomington, Ind. (50). 1901. G

*Moulton, C. Robert, Agricultural Building, Columbia, Mo. (58). 1911. C

Moulton, Dudley, Ferry Bldg., San Francisco, Cal. (57).

*Moulton, Forest Ray, Ph. D., Instructor in Celestial Mechanics, University of Chicago, Chicago, Ill. (50). 1901. A

Moulton, Mace, C. E., The Ansonia, 73d and Broadway, New York, N. Y. (60). D

Moulton, W. H., care Cleveland Cliffs Iron Co., Ishpeming, Mich. (53). D

Mount, George Haines, Ph. D., Professor of Psychology, Iowa State Teachers College, Cedar Falls, Iowa. (62). H L

Mowlds, Eugene, C. E., American Bridge Co., Edgemoor, Del. (60). D

Mowry, Eugene C., M. D., 355 West 42d St., New York, N. Y. (60). K

*Moyer, James Ambrose, Assistant Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. (54). 1911. D

Moyer, Lycurgus R., Montevideo, Minn. (50). G

*Muckenfuss, Anthony Moultrie, Ph. D., Professor of Chemistry, University of Mississippi, University, Miss. (52). 1910. C

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Mulliken, Samuel Parsons, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (43). 1899. C

Mumford, Frederick Blackmar, Dean, College of Agriculture, University of Missouri, Columbia, Mo. (63). G

Mumford, Herbert Windsor, Professor of Animal Husbandry, University of Illinois, Urbana, Ill. (63). I

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*Murdoch, John, Public Library, Boston, Mass. (29). 1886. F H

Murdy, Robert L., M. D., Aberdeen, S. Dak. (60). K

Murfee, Edward Hunter, LL. D., Brenau College, Gainesvill, Ga. (63). B C

Murfee, Hopson Owen, Marion Institute, Marion, Ala. (61).

*Murlin, John Raymond, Ph. D., Asst. Professor of Physiology, Cornell University Medical School, New York, N. Y. (54). 1906. K

Murphy, Felix, M. D., Doylestown, Pa. (60). K

Murphy, Francis H., E. E., Portland Railway, Light and Power Co., Portland, Ore. (60). D

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Murray, James Jardine, E. M., Orogrande, New Mexico. (60). D

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Nabours, Robert Kirkland, Ph. D., Assistant Zoologist, Kansas State Agricultural College, Manhattan, Kans. (63). G

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Nagel, Hon. Charles, Secretary, Department of Commerce and Labor, Washington, D. C. (62).

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Nakamura, Keijiro, E. M., care Sumitomo's Smelting Works, Shisaka-Shima, Ochigun, Iyo, Japan. (60). D

Nash, Albert W., M. D., Jefferson, Me. (60). K

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*Nason, Frank L., West Haven, Conn. (36). 1888. E

Nason, William Abbot, M. D., Algonquin, Ill. (58). F

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Neale, Henry Marion, M. D., Upper Lehigh, Pa. (58). K

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Neely, John Crosby, E. E., 181 La Salle St., Chicago, Ill. (60). D

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*Neill, Charles P., Ph. D., U. S. Commissioner of Labor, Department of Commerce and Labor, Washington, D. C. (54). 1906. I

Neilson, John, 311 Madison Ave., New York, N. Y. (57). A

Neilson, Walter Hopper, M. D., Editor, *Milwaukee Medical Journal*, 114 Garfield Ave., Milwaukee, Wis. (51). K

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Nellis, William Jacob, M. D., 210 State St., Albany, N. Y. (60). K

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Nelson, Allen H., 64 Fifth Ave., New York, N. Y. (61).

*Nelson, Aven, Ph. D., Professor of Botany, University of Wyoming, Laramie, Wyo. (50). 1903. G

*Nelson, Edward William, U. S. Department of Agriculture, Washington, D. C. (54). 1906. F

*Nelson, James Allen, Ph. D., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (55). 1911. F

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Nelson, N. L. T., Ph. D., Professor of Biology, Des Moines College, Des Moines, Iowa. (53). G

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Neu, Daniel Alfred, ... (55). G

Neuman, Leo Händel, M. D., 194 State St., Albany, N. Y. (60). K

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*Newcomb, Harry Turner, R. F. D. No. 1, Bethesda, Md. (47). 1898. I

Newcomb, William W., M. D., 48 Webb Ave., Detroit, Mich. (58). F K

*Newcombe, Frederick Charles, Ph. D., Professor of Botany, University of Michigan, Ann Arbor, Mich. (43). 1896. G

Newell, Miss Anna Grace, Department of Zoology, Smith College, Northampton, Mass. (63). F

*Newell, Lyman Churchill, Ph. D., Professor of Chemistry, Boston University, Boston, Mass. (60). 1911. C

Newell, Marcus A., M. D., Sheridan, Wyo. (60). K

*Newell, Wilmon, College Station, Texas. (53). 1906. F G

Newhart, Horace, M. D., 910 Donaldson Building, Minneapolis, Minn. (60). K

Newins, Harold S., Oregon Agricultural College, Corvallis, Ore. (63). G

Newkirk, Burt L., Ph. D., College of Engineering, University of Minnesota, Minneapolis, Minn. (58). D

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Newkirk, Johnson, 1478 Princess Ave., Camden, N. J. (58). C

*Newland, David Hale, Assistant State Geologist, State Museum, Albany, N. Y. (54). 1909. E

*Newlands, James A., Chemist to State Board of Health, State Chemical Laboratory, Middletown, Conn. (57). 1909. C K

Newman, Arthur C., Armstrong Manual Training School, Washington, D. C. (61).

*Newman, Horatio Hackett, Ph. D., Associate Professor of Zoology, University of Chicago, Chicago, Ill. (58). 1909. F

Newman, Hugo, 538 West 150th St., New York, N. Y. (61). L

*Newsom, John Flesher, Ph. D., Professor of Mining Geology, Leland Stanford Junior University, Stanford University, Cal. (44). 1903. E

Newton, Earl B., 3209 3d Ave., W., Station F, Seattle, Wash. (62).

Nicholl, Roy Hubert, Professor of Physiology, Fordham University, New York, N. Y. (63). K

Nicholl, William Evan, Bellevue College, Bellevue, Nebr. (60). H L

Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37). C

Nichols, Charles Lemuel, M. D., 38 Cedar St., Worcester, Mass. (60). K

*Nichols, Edward Leamington, Ph. D., Professor of Physics, Cornell University, Ithaca, N. Y. (28). 1881. B C

*Nichols, Ernest Fox, LL. D., President, Dartmouth College, Hanover, N. H. (41). 1893. B

NICHOLS, JOHN TREADWELL, American Museum of Natural History, New York, N. Y. (62).

Nichols, M. Louise, Ph. D., Teacher of Geography and Zoology, Philadelphia Normal School, Philadelphia, Pa. (54). E F L

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Noble, Albert E., E. M., 20th St. and Wilmer Ave., Anniston, Ala. (60). D

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Noble, Harriet I., M. D., 262 Putnam Ave., Brooklyn, N. Y. (58). K

*Noble, Levi F., Ph. D., Valyermo, Cal. (54). 1911. E

Noer, Julius, M. D., Stoughton, Wis. (60). K

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Nolte, Lewis G., M. D., Senn's Block, Milwaukee, Wis. (51). K

Norbury, Frank Parsons, M. D., Board of Administration, Springfield, Ill. (58). H I K L

Nörgaard, Victor A., V. S., Honolulu, Hawaii. (58). F K

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Norris, F. O., M. D., Eagle Lake, Tex. (60). K

*Norris, Harry Waldo, Professor of Zoology, Iowa College, Grinnell, Iowa. (53). 1908. F

*Norris, James Flack, Ph. D., 124 Anawan Ave., West Roxbury, Mass. (54). 1906. C

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Norton, A. Wellington, LL. D., Pearland, Tex. (52). I

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Norton, Arthur Orlo, Assistant Professor of the History and Art of Teaching, Harvard University, Cambridge, Mass. (58). L

*Norton, J. B. S., Professor of Botany, Maryland Agricultural College, College Park, Md. (47). 1899. G

*Norton, J. Pease, Ph. D., Assistant Professor of Economics and Statistics, Yale University, New Haven, Conn. (57). 1907. I

*Norton, Jesse Baker, U. S. Department of Agriculture, Washington, D. C. (52). 1909. G

Norton, John Foote, Massachusetts Institute of Technology, Boston, Mass. (58). C

Norton, John H., Rialto, Cal. (58). C

Norton, Philander, E. E., 154 West 13th St., New York, N. Y. (62). B D

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Norton, Warren Carney, Department of Botany and Bacteriology, North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C. (63). G

*Norwood, Charles Joseph, Professor of Mining and Metallurgy, State University of Kentucky, Lexington, Ky. (54). 1906. E

Notman, George, 99 John St., New York, N. Y. (57).

Novak, Edward E., M. D., New Prague, Minn. (60). K

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Nunn, P. N., Provo, Utah. (58). D

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*Nutting, Perley Gilman, Ph. D., U. S. Bureau of Standards, Washington, D. C. (53). 1906. A B H L

Nylander, Olof O., R. F. D. 4, Caribou, Me. (50). F

Nyswander, Reuben Edson, Professor of Physics, University of Denver, University Park, Colo. (55). B

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Oakley, Russell A., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). G

Obear, George Barrows, Colby College, Waterville, Me. (54). B

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Oestlund, Oscar W., Ph. D., Assistant Professor of Biology, University of Minnesota, Minneapolis, Minn. (50). F
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Of, Charles, E. M., Palisade, N. J. (60). D
O'Gara, P. J., U. S. Department of Agriculture, Medford, Oregon. (61). G
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Ogden, Rollo, Editor, *New York Evening Post*, New York, N. Y. (57).
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Oglevee, Christopher Stoner, Sc. D., Professor of Natural Science, Lincoln College, Lincoln, Ill. (50). F G
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*Ohern, Daniel Webster, Ph. D., Oklahoma Geological Survey, Norma Okla. (58). 1911. E
Ohle, Ernest Linwood, Professor of Mechanical Engineering, Washington University, St. Louis, Mo. (58). D
Ohler, William H., 216 Spring St., Portland, Me. (58). B C G K
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Okerström, Albert, M. D., Sycamore, Ill. (57). K
*Oldberg, Oscar, Professor of Pharmacy and Applied Pharmaceutical Chemistry, Northwestern University Medical School, Chicago, Ill. (54). 1909. C L
*Olds, George Daniel, LL. D., Department of Mathematics, Amherst College, Amherst, Mass. (54). 1907. A
O'Leary, Pearse, M. D., Vicksburg, Miss. (60). K
Oleson, Olaf M., Fort Dodge, Iowa. (53). G
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*Oliphant, F. H., Geologist of South Pennsylvania Oil Co., Oil City, Pa. (51). 1906. E

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Olivier, Charles Pollard, Ph. D., Agnes Scott College, Decatur, Ga. (63).

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*Orton, Edward, Jr., Ohio State University, Columbus, Ohio. (48). 1900. C E

*Orton, William Allen, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (49). 1909. G

OSBORN, CHASE S., Sault Ste Marie, Mich. (60). E

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*Osborn, Henry Fairfield, Sc. D., LL. D., President, American Museum of Natural History, New York, N. Y. (29). 1883. E F

*Osborn, Henry Leslie, Ph. D., Professor of Zoology, Hamline University, St. Paul, Minn. (52). 1906. F

*Osborn, Herbert, Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (32). 1884. F

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Osborne, Loyall Allen, E. E., Manager, Westinghouse Electric and Manufacturing Co. Works, Pittsburg, Pa. (50). D

*Osburn, Raymond Carroll, Ph. D., Asst. Professor of Zoology, Barnard College, Columbia University, New York, N. Y. (50). 1906. F

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*O'Shea, Prof. Michael Vincent, President, Society of College Teachers of Education, University of Wisconsin, Madison, Wis. (53). 1907. H I L

Osmun, A. Vincent, Assistant Professor of Botany, Massachusetts Agricultural College, Amherst, Mass. (60). G

Osner, George A., care College of Agriculture, Ithaca, N. Y. (62). G

*Osterhout, George E., Windsor, Colo. (60). 1911. G

*Osterhout, Winthrop John Vanleuven, Ph. D., Assistant Professor of Botany, Harvard University, Cambridge, Mass. (61). 1911. G

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Ottley, Miss Alice M., Instructor in Botany, Wellesley College, Wellesley, Mass. (61). G

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Parman, Daniel Cleveland, Franklin, Tenn. (62). F

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Parrott, Percival John, Geneva, N. Y. (60). F

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Paton, William Agnew, Lakewood, N. J. (57).

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Patten, Andrew J., East Lansing, Mich. (62).

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Patten, Miss Jane Boit, South Natick, Mass. (55). G

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*Patterson, Andrew Henry, Professor of Physics, University of N. C., Chapel Hill, N. C. (51). 1906. B

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*Patterson, Prof. James Lawson, Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa. (45). 1906. A D
Patterson, John C., M. D., 177 Union Ave., Batavia, Ill. (60). K
Patterson, John Thomas, Ph. D., Adjunct Professor of Zoology, University of Texas, Austin, Texas. (61). F
Patterson, Stewart, ... (58).
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Paxon, Col. Frederic J., President, Atlanta Chamber of Commerce, Atlanta, Ga. (62).
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Payne, Henry Mace, Sc. D., Ph. D., Consulting Engineer, Morgantown, W. Va. (58). D E
*Peabody, Charles, Ph. D., Instructor in Anthropology, Harvard University, Cambridge, Mass. (58). 1908. H
Peabody, George A., 1436 East 111th St., N. E., Cleveland, Ohio. (63
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Peabody, James Edward, Scarsdale, N. Y. (61). F
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Pearce, Haywood Jefferson, Ph. D., President, Brenau College, Gainesville, Ga. (63). H
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*Pearce, Richard Mills, M. D., Professor of Experimental Medicine, University of Pennsylvania, Philadelphia, Pa. (56). 1911. K

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*Pearson, Raymond Allen, Commissioner of Agriculture, Albany, N. Y. (49). 1901. I

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Peavy, George W., Head, Department of Forestry, Oregon Agricultural College, Corvallis, Ore. (63). G

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Peck, Mrs. John Hudson, 3 Irving Place, Troy, N. Y. (28). H I K

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Peek, William A., M. D., 1403 Lewis St., Helena, Mont. (60). K

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Peet, Rev. Stephen Denison, Ph. D., Salem, Mass. (58). H

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*Pegram, George Braxton, Ph. D., Tutor in Physics, Columbia University, New York, N. Y. (52). 1905. B

Pegram, George Herndon, C. E., 165 Broadway, New York, N. Y. (62). D

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Peirce, Harold, 222 Drexel Building, Philadelphia, Pa. (33). H I

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Pickett, William Douglas, 228 Campsie St., Lexington, Ky. (41). D I

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Pierce, Francis Leslie, U. S. Department of Agriculture, Washington, D. C. (63). G

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Poats, Thomas Grayson, Associate Professor of Physics, Clemson Agricultural College, Clemson College, S. C. (50). B

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Price, Abel F., M. D., Medical Director, U. S. N., 2233 Q St., Washington, D. C. (60). K
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Price, J. Meday, 1144 Oxley St., South Pasadena, Cal. (58). C D
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Price, Robert C., Miller School, Va. (58). C
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Priest, Prof. Ward C., Pleasant St., Canton, N. Y. (63). B
Prince, John Dyneley, Ph. D., Sterlington, N. Y. (49).
*Prindle, Louis Marcus, U. S. Geological Survey, Washington, D. C. (55). 1908. E
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*Prosser, Charles Smith, Sc. D., Ph. D., Professor of Geology, Ohio State University, Columbus, Ohio. (33). 1891. E

Proudfit, Alexander Couper, Princeton, N. J. (47). I

*Prouty, William Frederick, Ph. D., Assistant State Geologist, Assistant, Professor of Geology, University of Alabama, University, Ala. (56). 1911. E

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*Pumpelly, Prof. Raphael, Newport, R. I. (62). 1911. E

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*Purdue, Prof. Albert Homer, State Geological Survey, Nashville, Tenn. (50). 1906. E

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Putnam, Miss Alice, 5515 Woodlawn Ave., Chicago, Ill. (60). F L

Putnam, Charles P., M. D., 63 Marlborough St., Boston, Mass. (28). K

*Putnam, Edward K., Acting Director, Davenport Academy of Sciences, Davenport, Iowa. (58). 1909. H

Putnam, Miss Elizabeth D., 131 Denison Ave., Davenport, Iowa. (45). H

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Quayle, Henry Josef, Assistant Professor of Entomology, Pathological Laboratory, Whittier, Cal. (55). F
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Ratcliffe, J. J., M. D., Aitkin, Minn. (63). K

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Reimer, Arthur Adams, C. E., 45 South Maple Ave., East Orange, N. J. (60). D

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Rembert, G. W. F., M. D., ... (60). K

*Remington, Joseph Price, Ph. D., Philadelphia College of Pharmacy, 1832 Pine St., Philadelphia, Pa. (54). 1906. K

Remington, Prof. Roe Eugene, Agricultural College, N. D. (60). C

*Remsen, Ira, M. D., Ph. D., LL. D., Johns Hopkins University, Baltimore, Md. (22). 1875. C

Rendtorff, Edmund J., Lake Forest Academy, Lake Forest, Ill. (61). B L

Rettger, Ernest William, Ph. D., Assistant Professor of Applied Mechanics, Cornell University, Ithaca, N. Y. (61). B D

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*Retzer, Robert, M. D., Asst. Professor of Anatomy, University of Chicago, Chicago, Ill. (60). 1911. K

Reuling, George, M. D., 103 West Monument St., Baltimore, Md. (60). K

Reuter, Enzio Rafael, Ph. D., Professor of Zoology, Helsingfors University, Helsingfors, Finland, Europe. (58). F

*Revell, Dr. Daniel G., Provincial Bacteriologist, P. O. Drawer 510, Strathcona, Alberta, Canada. (58). 1911. K

Rew, Irwin, 1128 Ridge Ave., Evanston, Ill. (58).

Reyling, Frederic F., M. D., 1004 Oak St., Kansas City, Mo. (58). K

Reynolds, Edward, M. D., Readville, Mass. (60). K

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Reynolds, George B., M. D., 809 North Charles St., Baltimore, Md. (60). K

Rhamy, Bonnelle W., M. D., Fort Wayne, Ind. (60). K

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Rice, Arthur Louis, M. E., 537 So. Dearborn St., Chicago, Ill. (63). D

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Rice, Edwin Wilbur, Jr., Sc. D., General Electric Co., Schenectady, N. Y. (50). D

Rice, Emily J., School of Education, University of Chicago, Chicago, Ill. (61). L

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*Rice, William North, Ph. D., LL. D., Professor of Geology, Wesleyan Unisity, Middletown, Conn. (18). 1874. E F L

Rich, John Lyon, Ph. D., Department of Geology, University of Illinois, Urbana, Ill. (60). E

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Richards, F. B., 2728 Edge Hill Road, Euclid Heights, Cleveland, Ohio. (63).

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*Richards, Robert Hallowell, LL. D., Professor of Mining Engineering and Metallurgy, Massachusetts Institute of Technology, Boston, Mass. (22). 1875. D

*Richards, Theodore William, Sc. D., Ph. D., LL. D., Professor of Chemistry, Harvard University, Cambridge, Mass. (47). 1899. B C

Richards, Theodore Wright, Surgeon, U. S. Navy, 1207 19th St. N. W., Washington, D. C. (63). K

Richardson, Major Charles A., Canandaigua, N. Y. (50). I

*Richardson, Charles Henry, Ph. D., Syracuse University, Syracuse, N. Y. (47). 1906. C E

Richardson, Charles Williamson, M. D., 1317 Connecticut Ave. N. W., Washington, D. C. (49). K

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Richardson, David Porter, M. D., Henderson, Texas. (60). K

*Richardson, George Burr, Ph. D., U. S. Geological Survey, Washington, D. C. (55). 1907. E

*Richardson, Harriet, Ph. D., Smithsonian Institution, Washington, D. C. (49). 1903. F

*Richardson, Mark Wyman, M. D., Secretary, State Board of Health, State House, Boston, Mass. (51). 1903. K

Richardson, Maurice H., M. D., 224 Beacon St., Boston, Mass. (60). K

Richardson, Roy S., 387*a* McDonough St., Brooklyn, N. Y. (58).

Richardson, Russell, M. D., Newtown, Pa. (58). K

*Richardson, William D., care Swift & Co., Chicago, Ill. (56). 1908. C

Richardson, William D., P. O. Box 185, Fredericksburg, Va. (52). C F

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Richmond, William Henry, Richmond Hill, Scranton, Pa. (50). D E

Richter, Clemens M., M. D., 209 Post St., S. W., San Francisco, Cal. (60). K

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Ricker, Maurice, 1039 19th St., Des Moines, Iowa. (50). F

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*Ricker, Percy Leroy, U. S. Department of Agriculture, Washington, D. C. (52). 1906. G

Ricketts, Louis Davidson, E. M., Cananea, Sonora, Mexico. (50). D E

*Ricketts, Palmer Chamberlaine, C. E., President, Rensselaer Polytechnic Institute, Troy, N. Y. (33). 1887. A D

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Ricketts, Col. R. Bruce, Wilkes-Barre, Pa. (33). E

Ridder, Herman, *New York Staats Zeitung*, 182 William St., New York, N. Y. (57).

*Riddle, Lincoln Ware, Ph. D., Associate Professor of Botany, Wellesley College, Wellesley, Mass. (52). 1910. G

*Riddle, Oscar, Ph. D., Instructor in Zoology, University of Chicago, Chicago, Ill. (58). 1910. F

Ridgway, Charles Sylvester, Alabama Polytechnic Institute, Auburn, Ala. (62). G

Riedel, J. Charles, C. E., 505 Macon St., Brooklyn, N. Y. (60). D

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Riggs, John D., M. E., care General Delivery, Kankakee, Ill. (60). D

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Riggs, Theodore F., M. D., Pierre, S. D. (60). K

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Riley, Prof. Charles Frederick Curtis, Department of Chemistry, University of Illinois, Urbana, Ill. (57). C F G

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Risley, Walter J., Professor of Mathematics, James Milliken University, Decatur, Ill. (62). A

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Robbins, Gilbert E., M. D., Chillicothe, Ohio. (60). K

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Robbins, William Bradford, M. D., 384 Commonwealth Ave., Boston, Mass. (60). K

Robert, Henry Martyn, Brigadier-General, U. S. A., Retired, Owego, N. Y. (54). A E I L

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Roberts, Christopher H., 10 Washington Place, New York, N. Y. (57). F

Roberts, Hon. George Evan, Treasury Department, Washington, D. C. (58). I

Roberts, H. L., Professor of Agriculture, State Normal School, Cape Girardeau, Mo. (52). E F G

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Roberts, John William, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). G

Roberts, P. R., care F. Blumenthal & Co., Wilmington, Del. (58). B C D F H I L

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Robertson, Charles Barr, Professor of Secondary Education, University of Pittsburg, Pittsburg, Pa. (63). L

Robertson, W. Rees B., 12 Conant Hall, Cambridge, Mass. (61). F

Robertson, William M., M. D., Warren, Pa. (60). K

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Robinson, Albert G., Cosmos Club, Washington, D. C. (62).

*Robinson, Benjamin Lincoln, Ph. D., Curator, Gray Herbarium, Cambridge, Mass. (41). 1893. G

*Robinson, Charles Budd, Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (58). 1909. G

*Robinson, Mrs. Daisy M. Orleman, M. D., 159 West 49th St., New York, N. Y. (40). 1897. K

Robinson, Emma C., 56 Crary Ave., Mt. Vernon, N. Y. (60). L

Robinson, G. Canby, M. D., Hospital of Rockefeller Institute, New York, N. Y. (62). K

Robinson, Henry Smith, M. E., 97 Main St., Andover, Mass. (60). D

Robinson, John Knowlton, E. E., 116 Broad St., New York, N. Y. (60). D

*Robinson, Otis Hall, Ph. D., Professor of Natural Philosophy, University of Rochester, Rochester, N. Y. (23). 1901. A B

*Robinson, Philip Ely, Ph. D., Assistant Professor of Physics, Princeton University, Princeton, N. J. (58). 1910. A B C D

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*Robinson, Miss Winifred J., Instructor in Botany, Vassar College, Poughkeepsie, N. Y. (55). 1911. G

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*Rockwood, Elbert William, M. D., Ph. D., Professor of Chemistry and Toxicology, State University of Iowa, Iowa City, Iowa. (50). 1906. C K

Roddy, Harry Justin, Ph. D., Professor of Geology and Geography, State Normal School, Millersville, Pa. (57). B E

Rodgers, George Branner, E. E., 1724 Magnolia Ave., Knoxville, Tenn. (58). D

Rodgers, T. G., Department of Mathematics, New Mexico Normal School, Silver City, New Mexico. (62). A

Rodgers, Thomas T., ... (58). C

*Roe, Edward Drake, Jr., Ph. D., Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). 1906. A

Roehr, Charles G., M. D., Box 327, Fort Pierce, Fla. (58). K

Roesler, Max, E. M., P. O. Box 2223, Bisbee, Ariz. (62). D

Roessler, Franz, 39 High St., Perth Amboy, N. J. (39). C

*Roever, William Henry, Ph. D., Washington University, St. Louis, Mo. (53). 1906. A

*Rogers, Arthur Curtis, M. D., LL. D., Faribault, Minn. (60). 1911. K

Rogers, Burton R., Manhattan, Kans. (62). F K

*Rogers, Charles Gardner, Ph. D., Associate Professor of Physiology, Syracuse University, Syracuse, N. Y. (57). 1909. F K

Rogers, Fred. A., E. E., Lewis Institute, Chicago, Ill. (60). D

Rohrer, Caleb W. G., M. D., Associate Professor of Pathology, College of Physicians and Surgeons, Baltimore, Md. (58). F K

*Rolfs, Peter Henry, Director, Florida Agricultural Experiment Station, Gainesville, Fla. (41). 1899. G

Rolker, Charles M., E. M., Leadenhall Buildings, London, E. C., England. (60). D

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Rominger, Louis, M. D., 1414 Highland Ave., Louisville, Ky. (60). K

Rood, James Theron, Ph. D., Lafayette College, Easton, Pa. (58). A B D

Roop, Hervin Ulysses, Ph. D., President, Eastern College, Manassas, Va. (58). H I K

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*Rorer, James Birch, Board of Agriculture, Trinidad, B. W. I. (51). 1911. G

*Rorer, Jonathan Taylor, Ph. D., Professor of Mathematics, Wm. Penn High School for Girls, Philadelphia, Pa. (47). 1906. A D L

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*Rosanoff, Martin André, Sc. D., Professor of Chemistry, Clark University, Worcester, Mass. (60). 1910. C

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Rosenfeld, Arthur H., Estacion Experimental Agricola, Tucuman, Argentine Republic, S. A. (57). F

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Rosenkrans, Duane B., North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C. (63). G

Rosenow, Edward C., M. D., 5804 Washington Ave., Hyde Park, Chicago, Ill. (62). K

Rosenthal, Edwin, M. D., 517 Pine St., Philadelphia, Pa. (51). K

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Ross, Prof. H. H., Point Loma, Cal. (58). C

Ross, Luther S., Professor of Biology, Drake University, Des Moines, Iowa. (61). F

Ross, Perley Ason, Instructor in Physics, Leland Stanford Junior University, Stanford University, Cal. (62). B

Ross, William J., M. D., 13 John St., Clayton, N. Y. (60). K

Rothermel, John G., Superintendent, Wagner Free Institute of Science, Philadelphia, Pa. (53). E F

Rothermel, John Jacob, Teacher of Physics, Eastern High School, Washington, D. C. (51). B D L

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Rothwell, William P., M. D., 26 High St., Pawtucket, R. I. (60). K

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Roush, G. A., 925 University Ave., Madison, Wis. (60). C

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Rowlands, Charles, P. O. Box 1034, Joliet, Ill. (58). C

*Rowlee, Willard Winfield, Sc. D., Professor of Botany, Cornell University, Ithaca, N. Y. (41). 1894. G

Rowley, Prof. Robert R., 1115 N. C. St., Louisiana, Mo. (62). F

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*Royce, Josiah, Ph. D., LL. D., Professor of History of Philosophy, Harvard University, Cambridge, Mass. (57). 1909. H

Ruckmich, Christian A., Cornell University, Ithaca, N. Y. (63). H

Ruddle, John, C. E., P. O. Box 331, Mauch Chunk, Pa. (60). D

Rudisch, Julius, M. D., 39 East 63d St., New York, N. Y. (57). K

Rudnick, Paul, 10640 So. Seeley Ave., Chicago, Ill. (60). C

Rudolph, Cuno H., Commissioner, District of Columbia, Washington, D. C. (62).

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Ruediger, Gustav Ferdinand, M. D., Ph. D., Professor of Bacteriology and Pathology, University of North Dakota, Grand Forks, N. D. (58). K

*Ruediger, William Carl, Ph. D., Professor of Educational Psychology, George Washington University, Washington, D.C. (58). 1910. H L

Ruffin, Sterling, M. D., Professor of Theory and Practice of Medicine, George Washington University, Washington, D. C. (52). K

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Ruggles, Arthur Gordon, Minnesota Experiment Station, St. Anthony Park, Minn. (58). F

Ruhl, Louis, 100 William St., New York, N. Y. (58). C D

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Rummler, William R., 1400 Tribune Building, Chicago, Ill. (58). D K

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Runner, George A., Lynchburg, Va. (58). F

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Rusk, Glanville Y., M. D., University of California, Berkeley, Cal. (54). K

*Russell, Col. A. H., U. S. A., War Department, Washington, D. C. (38). 1906. D

Russell, Bert, Forest Glen, Md. (58). C F G K

*Russell, Harry Luman, M. D., Ph. D., Dean, College of Agriculture, University of Wisconsin, Madison, Wis. (41). 1894. K

Russell, H. M., Compton, Cal. (58). F

*Russell, Henry Norris, Ph. D., Professor of Astronomy, Princeton University, Princeton, N. J. (54). 1906. A

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Russell, William Polk, Assistant Professor of Mathematics, Pomona College, Claremont, Cal. (60). A

Ruthven, Alexander G., Ph. D., Asst. Professor of Zoology, University of Michigan, Ann Arbor, Mich. (54). F

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Ruzicka, D. J., M. D., 334 East 72d St., New York, N. Y. (60). K

Ryan, Andrew Howard, M. D., University of Pittsburg, Pittsburg, Pa. (63). K

*Ryan, Harris Joseph, Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Cal. (38). 1890. B D

*Rydberg, Per Axel, Ph. D., Curator, New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1901. G

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Sanders, James G., College of Agriculture, University of Wisconsin, Madison, Wis. (54). F

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*Sanderson, Prof. Ezra Dwight, West Virginia University, Morgantown, W. Va. (50). 1904. F

Sanderson, Miss Mary R., McDowell, Ariz. (58). H

Sando, Will J., Milwaukee Club, Milwaukee, Wis. (51). E

Sandsten, Emil Peter, Ph. D., care B. R. V. I. Co., R. F. D., No. 3, Stevensville, Mont. (54). F

Sanes, Kay I., M. D., 1636 5th Ave., Pittsburg, Pa. (51). K

*Sanford, Edmond Clark, Sc. D., Ph. D., President, Clark University, Worcester, Mass. (49). 1902. H K

*Sanford, Fernando, Professor of Physics, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. B

Sanford, George Ruggles, care Solvay Process Co., Syracuse, N. Y. (58). C D

Sanford, Samuel, U. S. Bureau of Mines, Washington, D. C. (58). E

Sang, Alfred, 96 Boulevard de Versailles, St. Cloud, S. et O., France. (58). C D

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Santee, Leon B., M. D., R. F. D., Limaville, Ohio. (60). K

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Sargent, Henry B., M. E., 247 Church St., New Haven, Conn. (60). D

Sargent, Herbert E., Wolfboro, N. H. (63). G L

Sargent, Homer Earle, Detroit, Minnesota. (58). H

Sargent, Winthrop, Haverford, Pa. (54). D

Sarle, Clifton J., El Paso, Tex. (55). E

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Saunders, Bertram H., Nyack, N. Y. (63). H

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Saunders, Charles Winston, Professor of Physics and Chemistry, Jacksonville State Normal School, Jacksonville, Alabama. (58). A B C G

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*Saunders, Frederick Albert, Ph. D., Syracuse University, Syracuse, N. Y. (48). 1906. B

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Saunders, William E., E. M., Torresdale, Philadelphia, Pa. (58). D

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*Schmitter, Ferdinand, M. D., U. S. A., Fort Greble, R. I. (58). 1911. K

Schmitz, Nickolas, Maryland Agricultural College, College Park, Md. (62). G

*Schmucker, Samuel Christian, Ph. D., Professor of Biological Sciences, State Normal School, West Chester, Pa. (53). 1906. F G

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Schobinger, John J., 10831 Armida Ave., Morgan Park, Ill. (34). B L

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Schuh, Richard Edwin, Ph. D., Kent, Indiana. (54). F G

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Schulz, William Frederick, Ph. D., Asst. Professor of Physics, University of Illinois, Urbana, Ill. (60). B

*Schurman, Jacob Gould, Sc. D., Ph. D., LL. D., President, Cornell University, Ithaca, N. Y. (49). 1901. I

Schuster, Bruno L., M. D., Immigration Department, Port Huron, Mich. (60). K

Schuster, Michael P., M. D., care Providence Hospital, El Paso, Texas. (60). K

Schuyler, Sidney B., Box 224, Webster Groves, Mo. (58). H

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Schwerdtfeger, Otto M., M. D., 54 East 58th St., New York, N. Y. (60). K

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Scott, Arthur William, Professor of Science, St. David's College, Lampeter, South Wales, England. (46). A B

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*Scott, William Moore, care Thomsen Chemical Co., Baltimore, Md. (50). 1906. G

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*SCOVELL, MELVILLE AMASA, Ph. D., Director and Chemist, Agricultural Experiment Station, Lexington, Ky. (35). 1887. C

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Scurlock, Herbert Clay, 428 College St., Washington, D. C. (58). B C K

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Seager, Dan G., Box 57, Thebes, Ill. (60). C

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*Seaman, Arthur Edmund, Professor of Geology and Mineralogy, Michigan College of Mines, Houghton, Mich. (53). 1906. E

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*Searle, Rev. George M., Ph. D., 663 California St., San Francisco, Cal. (39). 1891. A

Sears, Frederick Edmund, St. Paul's School, Concord, N. H. (47). C E

Sears, Henry Francis, M. D., 86 Beacon St., Boston, Mass. (50). K

*Seashore, Carl Emil, Ph. D., Dean, Graduate College, State University of Iowa, Iowa City, Iowa. (49). 1902. I L

Seawell, Benjamin Lee, Teacher of Biology, State Normal School, Warrensburg, Mo. (50). F

Sedgwick, Julius P., M. D., 2015 Kenwood Parkway, Minneapolis, Minn. (60). K

*Sedgwick, William Thompson, Sc. D., Ph. D., Professor of Biology, Massachusetts Institute of Technology, Boston, Mass. (47). 1898. K L

See, James W., M. E., Rentschler Building, Hamilton, Ohio. (51). D

*See, Thomas Jefferson Jackson, Ph. D., Professor of Mathematics, U. S. N., Naval Observatory, Mare Island, Cal. (48). 1901. A

Seeker, Albert F., 160 Midwood St., Brooklyn, N. Y. (60). C

*Seelig, M. G., M. D., Humboldt Building, 537 North Grand Ave., St. Louis, Mo. (54). 1906. K

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*Segerblom, Wilhelm, Professor of Chemistry, Phillips Exeter Academy, Exeter, N. H. (53). 1906. C L

*Seidell, Atherton, Ph. D., Hygienic Laboratory, 25th and E Sts. N. W., Washington, D. C. (58). 1911. C

Seitz, Chas. E., 100 William St., New York, N. Y. (57).

*Selby, Augustine Dawson, Ohio Agricultural Experiment Station, Wooster, Ohio. (44). 1900. G

Selden, Andrew Kenneth, Jr., E. E., 96 Garrettson Ave., Bayonne, N. J. (60). D

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Seligman, Isaac Newton, 1 William St., New York, N. Y. (49).

*Sellards, Elias Howard, Ph. D., Florida State Geological Survey, Tallahassee, Fla. (54). 1906. E

*Sellers, James Freeman, Professor of Chemistry, Mercer University, Macon, Ga. (50). 1906. C

*Sellew, George Tucker, Ph. D., Professor of Mathematics, Knox College, Galesburg, Ill. (58). 1909. A

Semple, Clarence Carleton, Bluefields, Nicaragua, C. A. (58). D E

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Setz, C. F., Herculaneum, Mo. (60). C

Sever, George Francis, Room 1724, 13 Park Row, New York, N. Y. (49). B D

Severin, Harry Charles, Professor of Entomology, South Dakota State College, Brookings, S. D. (61). F

Sevin, Gertrude K., Agnes Scott College, Decatur, Ga. (63). F

Sewell, John Stephen, C. E., Alabama Marble Co., Gantt's Quarry, Ala. (58). D

Seyfert, Stanley S., E. E., Lehigh University, South Bethlehem, Pa. (60). D

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Seymour, Raymond Jesse, M. D., Assistant Professor of Physiology, Ohio State University, Columbus, Ohio. (60). K

Shafer, George Daniel, Ph. D., Box 644, East Lansing, Mich. (58). F

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Shannon, James I., S. J., Dean, School of Science, Asst. Professor of Physics, St. Louis University, St. Louis, Mo. (63). B

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Sharp, Charles Cutler, C. E., Nelsonville, Ohio. (50). D E

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Sheldon. Mrs. Jennie M. Arms, Deerfield, Mass. (44). E F

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*Shinn, Owen Louis, Ph. D., Assistant Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa. (58). 1910. C

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*Shreve, Forrest, Ph. D., Desert Botanical Laboratory of the Carnegie Institution, Tucson, Ariz. (57). 1909. G

Shreve, Randolph Norris, Chemist, care Lamar Chemical Works, Newark, N. J. (58). C

Shuler, Ellis W., Professor of Geology, Polytechnic College, Fort Worth, Tex. (60). E

Shull, Aaron Franklin, University of Michigan, Ann Arbor, Mich. (58). F

Shull, Charles Albert, Professor of Biology, Transylvania University, Lexington, Ky. (58). F G

*Shull, George Harrison, Ph. D., Cold Spring Harbor, Long Island, N. Y. (53). 1905. G

Shultz, Charles S., Hoboken, N. J. (31). F

Shumway, Royal R., Asst. Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (62). A

Shurtleff, Eugene, M. D., College of Physicians and Surgeons, 517 Shawmut Ave., Boston, Mass. (52). K

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*Shutt, Frank Thomas, Dominion Experimental Farms, Ottawa, Canada (47). 1898. C

Sickels, Ivin, M. D., College of the City of New York, New York, N. Y. (50). F K

Sickenberger, Ernest F., M. D., Carlstadt, N. J. (60). K

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*Sigsbee, Charles Dwight, Rear Admiral, U. S. N., Retired, Metropolitan Club, Washington, D. C. (28). 1882. E

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*Simon, William, Ph. D., Catonsville, Md. (29). 1895. C

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Simons, James E., M. D., Bay City, Tex. (60). K

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Simpson, Frank M., Bucknell University, Lewisburg, Pa. (58). B

Simpson, Howard Edwin, Asst. Professor of Geology, University of North Dakota, University, N. Dak. (62). E

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Simpson, Paul D., C. E., care Bangor Rwy. and Elect. Co., Bangor, Me. (60). D

Simpson, Quintus Irvin, Palmer, Ill. (54). F K

*Simpson, Sutherland, M. D., Sc. D., Professor of Physiology, Cornell University, Ithaca, N. Y. (62). 1911. K

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Sinnott, Edmund Ware, 24 Perkins Hall, Cambridge, Mass. (60). G

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Sjöström, Ivar L., C. E., Lawrence, Mass. (60). D

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*Skinner, Clarence A., Ph. D., Professor of Physics, University of Nebraska, Lincoln, Nebr. (48). 1903. B

*Skinner, Ernest Brown, Ph. D., Associate Professor of Mathematics, University of Wisconsin, Madison, Wis. (58). 1909. A

*Skinner, Henry, M. D., The Academy of Natural Sciences, Philadelphia, Pa. (47). 1902. F G K L

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Slade, Elisha, Somerset, Mass. (29). F

Sladen, Frank Joseph, M. D., Johns Hopkins University, Baltimore, Md. (63). K

*Slagle, Robert Lincoln, Ph. D., Brookings, S. D. (50). 1909. C E

Slater, Florence Wells, Flushing High School, Flushing, L. I., N. Y. (60). F

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Smith, Elliott, Ph. D., Cincinnati Observatory, Cincinnati, Ohio. (58). **A**

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*Smith, Eugene Randolph, Headmaster, The Park School, Auchentoroly Terrace, Baltimore, Md. (58). 1911. **A**

Smith, F. G., Analytical Chemist, Columbia, Tenn. (58). **C**

*Smith, Frances Grace, Ph. D., Associate Professor of Botany, Smith College, Northampton, Mass. (57). 1911. **G**

*Smith, Francis Henry, LL. D., Honolulu, Hawaii. (54). 1906. **A B**

*Smith, Frank, Associate Professor of Zoology, University of Illinois, Urbana, Ill. (49). 1900. **F**

Smith, Frank Clemes, E. M., Chase City, Va. (60). **D**

Smith, Franklin W., E. M., Box 937, Bisbee, Ariz. (57). **D E**

Smith, Fred G., U. S. Food Inspection Laboratory, St. Paul, Minn. (60.) **C**

Smith, Fred W., Department of Science, Northern Normal and Industrial School, Aberdeen, S. D. (54). **F G K**

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*Smith, George McPhail, Ph. D., Associate in Chemistry, University of Illinois, Urbana, Ill. (58). 1911. **C**

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Smith, H. Carlton, Harvard Medical School, Boston, Mass. (56). **C**

*Smith, Harlan Ingersoll, Geological Survey of Canada, Ottawa, Canada. (41). 1896. **H**

*Smith, Harold Babbitt, Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. (43). 1898. **B D**

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Smith, Herbert Stearns Squier, C. E., Professor of Civil Engineering, Princeton University, Princeton, N. J. (29). D

Smith, Homer Erastus, M. D., Norwich, N. Y. (60). K

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Smith, J. Hammond, School of Engineering, University of Pittsburg, Pittsburg, Pa. (61). A D

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Smith, James Brookes, Hampden-Sidney College, Hampden-Sidney, Va. (61). A

Smith, James Hervey, 5441 West Ohio St., Austin Station, Chicago, Ill. (40). E

Smith, Jared Gage, Kealakekua, Hawaii. (63). G

Smith, Jesse L., Superintendent of Schools, Highland Park, Ill. (58).

Smith, Jesse M., E. E., M. E., Room M-14, 220 Broadway, New York, N. Y. (58). D

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Smith, Joseph T., M. D., The Cecil, Baltimore, Md. (60). K

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Smith, Murdoch C., M. D., Lee Hall, Lynn, Mass. (60). K

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Smith, Norman J., 32 Union Square, New York, N. Y. (63).

Smith, Oakley, M. D., 8 North State Street, Chicago, Ill. (58). K

*Smith, Oberlin, C. E., M. E., Lochwold, Bridgeton, N. J. (58). 1911. D

*Smith, Percey F., Ph. D., Professor of Mathematics, Sheffield Scientific School, New Haven, Conn. (58). 1909. A

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Smith, Preston, Teacher of Science, State Normal School, Fitchburg, Mass. (61). L

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Smith, Ralph Ingram, Agricultural College, University of Porto Rico, Mayaguez, P. R. (54). F

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Smith, Sedgwick, Assistant in Geology, Harvard University, Cambridge, Mass. (61). E

Smith, Stuart, Chief Chemist, Superior Portland Cement Co., Ltd., Orangeville, Ontario, Canada. (58). B C

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Smith, Theodore W., Naperville, Ill. (58).

Smith, Thomas Alexander, Ph. D., Professor of Mathematics and Physics, Beloit College, Beloit, Wis. (50). A B

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*Smith, W. S. Tangier, Ph. D., University of Nevada, Reno, Nev. (50). 1906. E

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*Smith, Warren Rufus, Ph. D., Professor of Chemistry, Lewis Institute, Chicago, Ill. (52). 1906. C

*Smith, William Benjamin, Ph. D., LL. D., Professor of Philosophy, Tulane University, New Orleans, La. (50). 1901. A

Smith, William G., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (62). G

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Smyth, Ellison A., Jr., LL. D., Professor of Biology, Virginia Polytechnic Institute, Blacksburg, Va. (57). F G

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Snedaker, James Angus, E. M., 2209 East 13th Ave., Denver, Colo. (50). D

Snedden, David, 300 Ford Building, Boston, Mass. (61). L

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Snow, Elbridge Gerry, President, Home Insurance Co., 56 Cedar St., New York, N. Y. (57).

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Snow, Rachel Parker, 115 Russell Ave., Watertown, Mass. (61). A F

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*Snyder, Zachariah Xenophon, Ph. D., President, State Normal School, Greeley, Colo. (50). 1907. F

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Spahr, Robert Hoover, State University of Kentucky, Lexington, Ky. (63). B

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*Spalding, Volney Morgan, Ph. D., Loma Linda, Cal. (51). 1902. G

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Speer, C. H., M. E., care Algoma Steel Co., Ltd., Sault Ste Marie, Canada. (58). D

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Stanton, Frederic M., Starling Ohio Medical College, Columbus, Ohio. (62). C K

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Stearns, Edward F., 4451 Oakenwald Ave., Chicago, Ill. (58).

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Steckbeck, D. Walter, Department of Botany, University of Pennsylvania, Philadelphia, Pa. (63). G

Stedman, John Moore, Office of Experiment Stations, Washington, D. C. (58). F

Steel, Alvin Arthur, Fayetteville, Ark. (58). D E

Steel, Matthew, 1108 Paquin Ave., Columbia, Mo. (58). K

Steele, John M., M. D., Owings Mills, Md. (60). K

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Stephens, Thomas Calderwood, Professor of Biology, Morningside College, Sioux City, Iowa. (57). F K

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Stevens, Frederick W., Department of Physics, Lake Forest University, Lake Forest, Ill. (50). B

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Stevens, Neil Everett, Ph. D., care State Agricultural College, Manhattan, Kans. (63). G

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Stewart, Douglas, Assistant to Director, Carnegie Museum, Pittsburg, Pa. (50). E

Stewart, Francis Laird, Murrysville, Pa. (51). G

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Stewart, Hugh Angus, M. D., Asst. Professor of Pathology, Columbia University, New York, N. Y. (62). K

Stewart, James L., M. D., Boise, Idaho. (60). K

Stewart, John Pogue, Ph. D., Professor of Experimental Horticulture, Pennsylvania State College, State College, Pa. (63). G

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Storrs, Lucius Seymour, care Connecticut Co., New Haven, Conn. (51). D E

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*Taylor, Edward Wyllys, M. D., Instructor in Neuropathology, Harvard Medical School, Boston, Mass. (50). 1902. K
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Taylor, George W., Biological Station, Nanaimo, B. C., Canada. (60). F
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Taylor, Henry W., Chief Engineer, House of Representatives, 100 5th St. N. E., Washington, D. C. (52). D
Taylor, Howard F., C. E., 800 Brighton Ave., Kansas City, Mo. (58). D
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Taylor, W. T., ... (60).

Taylor, Walter Penn, Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (63). F

*Taylor, Wm. Alton, U. S. Department of Agriculture, Washington, D. C. (52). 1911. G

Tays, Eugene Augustus Hoffman, E. M., San Blas, Sinaloa, Mexico. (50). D E H

Teas, William H., General Superintendent, U. S. Leather Company, Ridgway, Pa. (58). C

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Tello, Julio César, M. D., Lima, Peru, S. A. (62). K

*Temple, James Clarence, Georgia Experiment Station, Experiment, Ga. (61). 1911. C G

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Terry, Howard L., Inspector, State High School, Madison, Wis. (61).

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Thacher, Cornelius S., Barringer High School, Newark, N. J. (60). A

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Thaw, Mrs. William, Box 1086, Pittsburg, Pa. (41). H
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THAYER, JOHN ELIOT, Lancaster, Mass. (62). G
Thayer, Warren N., Central School, Norwood, Ohio. (60). C
*Thayer, William Sydney, M. D., LL.D., Professor of Clinical Medicine, Washington College, Johns Hopkins University, Baltimore, Md. (52). 1903. K
Theilman, Louis, Bonne Terre, Mo. (58).
Thiessen, Reinhardt, Ph. D., U. S. Bureau of Mines, Washington, D. C. (60). E G
Thelberg, Elizabeth B., M. D., Resident Physician and Professor of Physiology and Hygiene, Vassar College, Poughkeepsie, N. Y. (50). H I K L
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Thompson, Hugh L., M. E., Waterbury, Conn. (51). D I

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Thorn, Joseph F., E. M., ... (60). D

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*Tower, Ralph Winfred, Ph. D., Curator of Physiology, American Museum of Natural History, New York, N. Y. (52). 1905. K
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Townsend, Charles H. T., Piura, Peru, S. A. (60). F
Townsend, Charles Haskins, Director, New York Aquarium, Battery Park, New York, N. Y. (58). F
*Townsend, Charles Orrin, Ph. D., Garden City, Kansas. (46). 1902. G
*Townsend, Edgar Jerome, Ph. D., Dean, College of Science, and Professor of Mathematics, University of Illinois, Urbana, Ill. (54). 1906. A L
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Tracey, Joshua Irving, Teacher of Physics, Pennington Seminary, Upperco, Md. (57). A B
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Tracy, Dr. William W., 22, The Roanoke, Washington, D. C. (63). G
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Trocon, Albert A., C. E., care Midland Bridge Co., Kansas City, Mo. (60). D

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Trotter, Spencer, M. D., Swarthmore College, Swarthmore, Pa. (55). E F H

Trowbridge, Arthur C., Geology Department, State University of Iowa, Iowa City, Iowa. (58). E

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Trowbridge, Mrs. Luther H., 304 West 99th St., New York, N. Y. (21). G I

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Vavra, Joseph, Holly, Colo. (58). C

Vawter, Charles Erastus, Jr., Professor of Physics, Virginia Polytechnic Institute, Blackburg, Va. (57). B

*Veatch, Arthur Clifford, U. S. Geological Survey, Washington, D. C. (52). 1907. E

Veazie, Henry Augustus, M. D., 1305 St. Mary St., New Orleans, La. (55). K

*Veblen, Oswald, Ph. D., Professor of Chemistry, Princeton, N. J. (58). 1909. A C

*VEDDER, CAPTAIN EDWARD B., Medical Corps, U. S. A., care Chief Surgeon, U. S. A., Manila, P. I. (57). 1911. K

Veeder, Curtis Hussey, M. E., 17 Marshall St., Hartford, Conn. (50). B D

Veeder, Major Albert, M. D., Lock Box 1108, Lyons, N. Y. (60). A K

Veitch, Fletcher Pearre, Chief, Leather and Paper Laboratory, U. S. Department of Agriculture, Washington, D. C. (62). C

*Venable, Francis Preston, Ph. D., LL. D., President, University of North Carolina, Chapel Hill, N. C. (39). 1891. C

Venable, Wm. Mayo, C. E., Blaw Collapsible Steel Centering Co., Pittsburg, Pa. (50). D

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Verner, S. P., Columbia, S. C. (58). H

Ver Planck, William G., 149 Broadway, New York, N. Y. (57).

*Verrill, Addison Emery, Professor of Zoology, Yale University, New Haven, Conn. (47). 1898. F

*Very, Frank W., Westwood Astrophysical Observatory, Westwood, Mass. (60). 1911. A

Vestal, Arthur G., 1045 Pennsylvania Ave., Boulder, Colo. (63). F G

Vickery, Roy Albion, Brownsville, Texas. (58). F

Viereck, Henry Lorenz, U. S. National Museum, Washington, D. C. (58). C E F G H I K L

Vietor, Agnes C., M. D., Trinity Court, Boston, Mass. (57). K

Villard, Mrs. Henry, 540 Park Ave., New York, N. Y. (36).

*Villarello, Juan D., 5a Cipres No. 2728, Mexico, D. F. Mexico. (57). 1911. E

Vinal, Washington Irving, 1106 East Capitol St., Washington, D. C. (40). E

*Vincent, George Edgar, Ph. D., President, University of Minnesota, Minneapolis, Minn. (58). 1910. L

*Vincent, Swale, M. D., Sc. D., Professor of Physiology, University of Manitoba, Winnipeg, Canada. (57). 1908. K

*Vinson, Albert Earl, Ph. D., Agricultural Experiment Station, Tucson, Ariz. (58). 1911. C

Viol, Charles Herman, Kent Chemical Laboratory, University of Chicago, Chicago, Ill. (58). C

Visscher, L. G., M. D., 520 Homer Laughlin Building, Los Angeles, Cal. (58). K

Vitz, Prof. Martin, R. F. D. No. 29, Plymouth, Wis. (62). K

Vivian, Alfred, Professor of Agricultural Chemistry, Ohio State University, Columbus, Ohio. (62). C

*Voegtlin, Carl, M. D., Ph. D., Johns Hopkins Medical School, Baltimore, Md. (60). 1911. F K

*Vogdes, General Anthony Wayne, U. S. A., Retired, 2425 First St., San Diego, Cal. (32). 1885. E F

*Vogt, Clarence Charles, University of Pittsburg, Pittsburg, Pa. (58). 1910. C

Voje, John Henry, M. D., Proprietor, Waldheim Park, Oconomowoc, Wis. (51). K

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von Hermann, C. F., 83 West 5th St., Atlanta, Ga. (51). B

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von Ihering, Dr. Herman, Director, Museu Paulista, Caixa g, São Paulo, Brazil. (51). F H

*von Isakovics, Alois, care Synfleur Scientific Laboratories, Monticello, N. Y. (55). 1909. C

von Keller, Frederick P. P., M. D., 721 C St. N. W., Ardmore, Okla. (60). K

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Voorhees, S. S., Bureau of Standards, U. S. Department of Commerce and Labor, Washington, D. C. (57). D

Voorhees, Sheldon, M. D., Auburn, N. Y. (60). K

Vorhies, Charles Taylor, Ph. D., Professor of Zoology, University of Utah, Salt Lake City, Utah. (60). F

Vosburgh, Charles H., 78 Bergen Ave., Jamaica, N. Y. (60). C

Vosburgh, William L., 99 Monroe Ave., Brockport, N. Y. (60). A

Votey, Josiah William, Sc. D., Professor of Civil Engineering, University of Vermont, Burlington, Vt. (50). D

*Vreeland, Frederick K., 31 Nassau St., New York, N. Y. (50). 1908. B D G

Wackenhuth, Frederick Christopher, Jr., 57 Freeman St., Newark, N. J. (53). C

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Waddell, Miss M. E. G., St. Margaret's College, Toronto, Can. (60). A

Wade, Frank C., M. D., Lima, Ind. (58). K

Wade, Frank S., 127 East Wilson Ave., Hollywood, Cal. (60). C

Wade, John W., M. D., 318 North Second St., Millville, N. J. (51). I

Wadleigh, Prof. Walter Hiram, 1725 Fairmount Ave., Wichita, Kans. (61). B

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*WADSWORTH, FRANK LAWTON OLCOTT, E. M., Commonwealth Trust Building, Pittsburg, Pa. (52). 1904. A B

Wadsworth, Herbert, 1801 Massachusetts Ave. N. W., Washington, D. C. (52). D E

*Wadsworth, M. Edw., Ph. D., Dean of School of Mines and Metallurgy, and Professor of Mining Geology, Pennsylvania State College, State College, Pa., also Dean of School of Mines and Professor of Mining Geology, University of Pittsburg, Pittsburg, Pa. (23). 1874. E L

*Wadsworth, Oliver Fairfield, M. D., 526 Beacon St., Boston, Mass. (52). 1906. K

Wadsworth, Richard G., M. D., 526 Beacon St., Boston, Mass. (60). K

Wadsworth, William Austin, Geneseo, N. Y. (50). G

Wadsworth, William S., M. D., 207 South 45th St., Philadelphia, Pa. (54). K

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*Wagner, Frank Caspar, Professor of Steam Engineering, Rose Polytechnic Institute, Terre Haute, Ind. (34). 1897. D

*Wagner, George, Assistant Professor of Zoology, University of Wisconsin, Madison, Wis. (46). 1909. F L

*Wagner, Samuel, President, Wagner Free Institute of Science, Greenbank Farm, West Chester, Pa. (51). 1906. A

Wagner, Samuel Tobias, C. E., School House Lane, Germantown, Philadelphia, Pa. (60). D

Wahrer, Charles Frederick, M. D., 1007 5th St., Fort Madison, Iowa. (53). G K

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Wainwright, Jacob T., C. E., P. O. Box 774, Chicago, Ill. (51). B D I

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Wait, John Cassan, C. E., 38 Park Row, New York, N. Y. (58). D

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Walcott, Gregory Dexter, Ph. D., Department of Philosophy and Psychology, Hamline University, St. Paul, Minn. (61). H L

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Waldo, Edward H., E. E., 604 West Main St., Urbana, Ill. (60). D

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Waldron, Lawrence Root, Superintendent, Dickinson Sub-Experiment Station, Dickinson, N. D. (61). G

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Walker, Sir Edmund, LL. D., 99 St. George St., Toronto, Canada. (38). E

Walker, E. R., M. D., Copperhill, Tenn. (60). K

Walker, Dr. Edmund Murton, Biological Department, University of Toronto, Toronto, Canada. (62). F

Walker, Elda R., Ph. D., Asst. Professor of Botany, University of Nebraska, Lincoln, Nebr. (62). G

*Walker, Ernest, Professor of Horticulture, University of Arkansas, Fayetteville, Ark. (52). 1911. G

Walker, Miles J., M. D., Yorkville, S. C. (60). K

*Walker, Percy Hargraves, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (55). 1908. C

WALKER, R. M., 713 Grant Building, Atlanta, Ga. (52). D

Walker, Thomas Barlow, President, Board of Directors, Minneapolis City Library, 807 Hennepin Ave., Minneapolis, Minn. (51).

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Wall, William E., 1087 West 11th St., Cleveland, Ohio. (63).

Wallace, Errett, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). G

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Wallace, Samuel R., 1196 East 113th St., Cleveland, Ohio. (63).

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Wallerstein, Max, Ph. D., 105 East 91st St., New York, N. Y. (53). C

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*Wallin, J. E. Wallace, Ph. D., University of Pittsburg, Pittsburg, Pa. (57). 1911. H L

Walmsley, Walter Newbold, E. E., São Paulo, Brazil, S. A. (60). D

Walsh, James Joseph, M. D., Ph. D., LL. D., Dean, Fordham Medical School, New York, N. Y. (51). H K L

Walsh, Joseph, M. D., ...(58). K

Walsh, William E., M. D., Morris, Ill. (58). K

Walter, Miss Emma, 343 So. 18th St., Philadelphia, Pa. (50). E

*Walter, Herbert Eugene, Ph. D., Assistant Professor of Biology, Brown University, Providence, R. I. (57). 1909. F

WALTERS, FRANK, South Sandisfield, Mass. (56). F G H

Walton, John W., 2112 Euclid Ave., Cleveland, Ohio. (63).

*Walton, Lee Barker, Ph. D., Professor of Biology, Kenyon College, Gambier, Ohio. (53). 1908. F

Walton, Lyman A., 5737 Woodlawn Ave., Chicago, Ill. (58).

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Warbasse, James, 23 West Fulton St., Gloversville, N. Y. (54). I

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Warburton, Frederick J., 130 New York Ave., Brooklyn, N. Y. (57).

Ward, Charles, Charleston, W. Va. (57).

Ward, Charles Howell, 387 West Ave., Rochester, N. Y. (58). H

WARD, CHARLES WILLIS, Queens, Long Island, N. Y. (57).

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*Ward, Henry L., Director, Milwaukee Public Museum, Milwaukee, Wis. (51). 1906. E F H

Ward, J. Langdon, 16 Exchange Place, New York, N. Y. (29). I

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*Ward, Robert De Courcy, Professor of Climatology, Harvard University, Cambridge, Mass. (58). 1910. E

Ward, Willard Parker, E. M., Ph. D., 542 West 112th St., New York, N. Y. (50). D E

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WARE, LEWIS SHARPE, 54 rue de la Bienfaisance, Paris, France. (62). C G

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*Ware, Wm. R., Adams St., Milton, Mass. (36). 1901. D

Warfield, Frederic P., 2 Rector St., New York, N. Y. (60).

Waring, Tracy D., E. E., Standard Underground Cable Co., Perth Amboy, N. J. (60). D

Waring, William George, Webb City, Mo. (58). B C E

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Warner, Mrs. Murray, Norwich, Conn. (62).

*Warner, Worcester Reed, Tarrytown, N. Y. (33). 1888. A B D

Warren, Edward R., 20 West Caramillo St., Colorado Springs, Colo. (57). F

*Warren, Geo. Frederick, Ph. D., Professor of Farm Crops, Cornell University, Ithaca, N. Y. (52). 1911. G

Warren, Homer S., M. D., 103 State St., Chicago, Ill. (58). K

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*Warren, Joseph Weatherhead, M. D., Professor of Physiology, Bryn Mawr College, Bryn Mawr, Pa. (31). 1886. K

Warren, Mortimer, M. D., 620 West 122d St., New York, N. Y. (60). K

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Warren, William R., 68 William St., New York, N. Y. (49).

Warrington, James N., 2001 La France Ave., South Pasadena, Cal. (34). D

Warth, Albin H., 631 Western Avenue, West Lynn, Mass. (58). C

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Washburn, Frank Sherman, C. E., 911–918 Stahlman Building, Nashville, Tenn. (60). D

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Washburne, Chester Wesley, Poste Restante, Buenos Aires, Argentine Republic, S. A. (62).

*Washington, Henry Stephens, Ph. D., Consulting Geologist and Chemist, 95 Liberty St., New York, N. Y. (44). 1897. C E

Washington, William de Hertburne, C. E., 267 5th Ave., New York, N. Y. (60). D

Wastenays, Dr. Hardolph, Rockefeller Institute for Medical Research, New York, N. Y. (63). K

*Waterman, Frank Allan, Ph. D., Professor of Physics, Smith College, Northampton, Mass. (54). 1906. B

Waterman, Warren Gookin, Professor of Physics and Geology, Fisk University, Nashville, Tenn. (53). B E L

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Waters, Theodore, Room 96, Bible House, New York, N. Y. (54). I

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Watkins, Willard H., 622 Linwood Ave., Buffalo, N. Y. (58). C

Watson, Arthur Eugene, Ph. D., Brown University, Providence, R. I. (62). D

*Watson, Benjamin Marston, Jamaica Plain, Mass. (50). 1911. G

Watson, Miss Caroline A., North Andover, Mass. (31). D

*Watson, Floyd Rowe, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (58). 1909. B L

Watson, Frank Elbert, Hobart College, Geneva, N. Y. (51). F

Watson, John Henry, 51 West 75th St., New York, N. Y. (57).

Watson, Joseph Ralph, University of Florida, Gainesville, Fla. (50). F

Watson, Lawrence Orr, South Carolina Agricultural Experiment Station, Clemson College, S. C. (63). G

*Watson, Thomas Augustus, East Braintree, Mass. (42). 1906. E F L

*Watson, Thomas Leonard, Ph. D., State Geologist, Professor of Economic Geology, University of Virginia, Charlottesville, Va. (60). 1910. E

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Watts, Rowland, "Mont Alto," Baltimore, Md. (58). A B D E F G H

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Webb, Harrison E., 12 Irving Place, Summit, N. J. (60). A

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Webb, Lewis Warrington, E. E., Master Electrician, Navy Yard, Norfolk, Va. (60). D

Webber, G. E., M. D., Morland, Kans. (60). K

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Webber, Samuel G., M. D., 60 Gorham Ave., Brookline, Mass. (60). K

Weber, Arthur L., 2514 Prairie Ave., Chicago, Ill. (58).

Weber, George Adam, C. E., M. E., 71 Courtland Ave., Stamford, Conn. (58). D

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Webster, Mrs. A. G., Hotel Vendome, Boston, Mass. (60).

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Webster, Clement Lyon, E. M., 111 Hawkins Ave., Charles City, Iowa. (58). D E H

Webster, David Locke, 134 Summer St., Boston, Mass. (60). B

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Webster, Edgar M., M. D., 9139 Commercial Ave., Chicago, Ill. (60). K

Webster, Edwin Harrison, Kansas State Agricultural College, Manhattan, Kans. (62).

*Webster, Prof. Francis Marion, U. S. Department of Agriculture, Washington, D. C. (35). 1890. F

Webster, Frederic S., Newsboys' Home, Grant and Webster Ave., Pittsburg, Pa. (51). E F H

Webster, Hutton, Ph. D., Professor of Social Anthropology, University of Nebraska, Lincoln, Nebr. (62). H

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Webster, Robert Lorenzo, Ames, Iowa. (58). F

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Weed, George M., 40 Central St., Boston, Mass. (54). I

Weed, Henry T., 181 Prospect Park, West, Brooklyn, N. Y. (54). B C

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Weed, Lewis H., M. D., Johns Hopkins Medical School, Baltimore, Md. (61). K

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Weeks, John Elmer, M. D., 46 East 57th St., New York, N. Y. (60). K

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Weems, Mason Locke, Professor of Botany and Physiology, Valparaiso University, Valparaiso, Ind. (52). G K

Wehle, Theodore, 59 West 83d St., New York, N. Y. (57). B C

Wehner, Lewis, M. E., care Vulcan Steam Shovel Co., 916 Summit St., Toledo, Ohio. (60). D

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Weightman, Charles H., 5859 Michigan Ave., Chicago, Ill. (60). A

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Weimer, Edgar A., E. M., Superintendent, Weimer Machine Works Co., Lebanon, Pa. (51). D

Weinberg, Semen G., M. E., Kirpitchny 1, St. Petersburg, Russia. (60). D

Weinberger, William, M. D., 252 Willis Ave., New York, N. Y. (58). K

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Weinrich, Morris Francis, Ph. D., Instructor in Physics, Columbia University, New York, N. Y. (60). A B

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Weir, Dr. George Ernest, Cayuga, Ind. (63). K

Weir, John B., 224 West Monument St., Baltimore, Md. (62).

Weir, Samuel, Ph. D., Dean, School of Education, Dakota Wesleyan University, Mitchell, S. D. (60). L

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Weld, Fred. C., care Lowell Bleachery, Lowell, Mass. (58). C

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Weller, Miss Annie L., Charleston, Ill. (60). A

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Welles, Francis R., 92 Avenue Henri Martin, Paris France. (60). D

Welles, Miss Marion, 419 College Ave., De Kalb, Ill. (60). A

Wellisch, Edward M., Asst. Professor of Physics, Yale University, New Haven, Conn. (62). B

*Wellman, F. Creighton, M. D., Cuiado de Senhores, Silva and Lopes (via Lisbon), Benguella, Africa. (58). 1911. K

Wells, Eliab Horatio, M. D., Professor of Natural Science, Baylor Female College, Belton, Tex. (50). A D

Wells, Frederick Latimer, 101 South Clinton St., Chicago, Ill. (58).

*Wells, Frederic Lyman, Ph. D., McLean Hospital, Waverly, Mass. (54). 1911. H K

Wells, George Augustus, E. E., Chief Engineer, Adams Express Co., 61 Broadway, New York, N. Y. (58). D

*Wells, H. Edward, Ph. D., Washington and Jefferson College, Washington, Pa. (54). 1911. C

*Wells, Harry Gideon, M. D., Ph. D., Associate Professor of Pathology, University of Chicago, Chicago, Ill. (57). 1910. K

Wells, Professor William E., 243 Buena Vista St., Redlands, Cal. (60). B E G

WELSH, FRANCIS RALSTON, 328 Chestnut St., Philadelphia, Pa. (51).

Welsh, Lilian, M. D., The Arundel, North Charles St., Baltimore, Md. (60). K

Welsh, Thomas Whitney Benson, Department of Chemistry, Cornell University, Ithaca, N. Y. (61). C

Wendell, Rev. C. A., 616 Lake St., Evanston, Ill. (62).

*Wendell, Oliver Clinton, Sc. D., Assistant Professor of Astronomy, Harvard College Observatory, Cambridge, Mass. (56). 1908. A

Wendling, Hon. Geo. R., Charlestown, W. Va. (52). I

Weniger, Willibald, Ph. D., Oregon Agricultural College, Corvallis, Ore. (62). B

*Wenner, Frank, Ph. D., Bureau of Standards, Washington, D. C. (54). 1911. B

Wenrich, Calvin, N., Instructor in Physics, University of Pittsburg, Pittsburg, Pa. (63). B

Wentworth, Irving Houghton, care Minas Santa Maria de la Paz, Matehuala, S. L. P., Mex. (54).

Wentworth, Walter V., Great Works, Me. (60). C

Werk, Louis, Werk Place, Westwood, Cincinnati, Ohio. (56).

*Wesbrook, Frank Fairchild, M. D., Dean, College of Medicine and Surgery, University of Minnesota, Minneapolis, Minn. (54). 1906. K

Wescott, Cassius D., M. D., 22 East Washington St., Chicago, Ill. (60). K

Wescott, William Carter, M. D., cor. Pacific and Delaware Aves., Atlantic City, N. J. (58). C K

Wesendonck, Walter, 221 Fourth Ave., New York, N. Y. (57). I L

Wesener, John A., M. D., 31 North State St., Chicago, Ill. (58). C

Wessler, Harry,.....(57). K

*Wesson, David, Manager, Technical Department, Southern Cotton Oil Co., 24 Broad St., New York, N. Y. (50). 1911. C

West, Rodney Mott, 2128 Knapp St., St. Paul, Minn. (60). C

West, Thomas Dyson, care The West Steel Casting Co., Cleveland, Ohio. (51). D

Westerman, P. B., Oakdale, Cal. (61).

Westervelt, William Y., E. M., 17 Madison Square, East, New York, N. Y. (60). D

*Westfall, W. D. A., Ph. D., Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. (60). 1911. A

Westgate, John Minton, U. S. Department of Agriculture, Washington, D. C. (63).

*Westgate, Lewis Gardner, Ph. D., Professor of Geology, Ohio Wesleyan University, Delaware, Ohio. (51). 1906. E

*WESTINGHOUSE, GEORGE, Ph. D., Pittsburg, Pa. (50). 1902. D

Westinghouse, Henry Herman, 165 Broadway, New York, N. Y. (51). D

Weston, David Brainard, Sharon, Mass. (57). C D

*Weston, Edward, Sc. D., LL. D., 645 High St., Newark, N. J. (33). 1887. B C D

Wetherill, Henry Emerson, M. D., 3734 Walnut St., Philadelphia, Pa. (53). K

Wetzel, Reinhard A., College of the City of New York, New York, N. Y. (53). A B

Weymouth, Frank W., Asst. in Physiology, Leland Stanford Junior University, Stanford University, Cal. (62). H

Weymouth, Thomas R., M. E., United Natural Gas Co., 206 Seneca St., Oil City, Pa. (63). D

*Weysse, Arthur Wisswald, M. D., Ph. D., Professor of Biology, Boston University, Boston, Mass. (52). 1905. F K

Whealdon, A. D., Professor of Chemistry, State Normal School, Superior, Wis. (61). C

Wheatland, Marcus F., M. D., 84 John St., Newport, R. I. (51). H K

*Wheeler, Alvin Sawyer, Ph. D., Associate Professor of Chemistry, University of North Carolina, Chapel Hill, N. C. (50). 1901. C

Wheeler, Charles A., Connecticut Agricultural College, Storrs, Conn. (61). L

*Wheeler, Henry Lord, Ph. D., Professor of Chemistry, Sheffield Scientific School, Yale University, New Haven, Conn. (50). 1901. C

Wheeler, Herbert Locke, 12 West 46th St., New York, N. Y. (57). K

*Wheeler, Homer Jay, Ph. D., Director and Chemist, Rhode Island Agricultural Experiment Station, Kingston, R. I. (54). 1909. C E

Wheeler, Horace Leslie, ...(52). A E

*Wheeler, Lynde Phelps, Ph. D., 124 Linden St., New Haven, Conn. (60). 1910. B

*Wheeler, William Morton, Ph. D., Bussey Institution, Forest Hills, Boston, Mass. (50). 1901. F H

Wheelock, Raymond P., E. M., care Enterprise Mine, Box 125, Kingman, Ariz. (58). D

WHEELOCK, WM. E., M. D., Morristown, N. J. (57). K

Wheelwright, Wm. D., Portland, Oregon. (57). A I

WHELPLEY, HENRY MILTON, M. D., 2342 Albion Place, St. Louis, Mo. (52). H K

Whelpley, James D., Cosmos Club, Washington, D. C. (52). I

*Wherry, Edgar Theodore, Ph. D., Lehigh University, South Bethehem, Pa. (57). 1911. C E

*Whetzel, Herbert Hice, Professor of Botany, New York State College of Agriculture, Forest Home, Ithaca, N. Y. (56). 1908. G

*Whipple, George Chandler, Consulting Engineer, 103 Park Ave., New York, N. Y. (54). 1906. C D

*Whipple, George Hoyt, M. D., Johns Hopkins Hospital, Baltimore, Md. (60). 1911. F K

*Whipple, Guy Montrose, Ph. D., Assistant Professor of Education, Cornell University, Ithaca, N. Y. (58). 1912. H L

Whitaker, De Berniere, E. M., care Juragua Iron Co., Firmeza, Santiago, Cuba. (60). D

Whitbeck, John F. W., M. D., 781 Park Ave., Rochester, N. Y. (60). K

Whitcomb, William Henry, Associate Professor of Chemistry, Miami University, Oxford, Ohio. (58). C

White, Benjamin, Ph. D., Hoagland Laboratory, Brooklyn, N. Y. (63).

White, Charles Henry, Medical Director, U. S. N., Retired, Center Sandwich, N. H. (34). C H

*White, David, U. S. National Museum, Washington, D. C. (40). 1892. E G

White, Harry Oscar, M. D., Professor of Anatomy, University of Southern California, Los Angeles, Cal. (63). K

*White, Henry Clay, Sc. D., Ph. D., LL. D., University of Georgia, Athens, Ga. (29). 1885. C

*White, Henry Seeley, Ph. D., Professor of Mathematics, Vassar College, Poughkeepsie, N. Y. (58). 1909. A

*White, Horace, LL. D., Editor, *New York Evening Post*, 18 West 69th St., New York, N. Y. (50). 1901. I

*White, Israel C., Ph. D., State Geologist of West Virginia, Morgantown, W. Va. (25). 1882. E

White, J. A., 323 West Navarre St., South Bend, Ind. (58). C

White, James Herbert, University of Toronto, Toronto, Canada. (62). G

White, Jesse Hayes, Professor of Psychology and Education, University of Pittsburg, Pittsburg, Pa. (62). H L

*White, John, Ph. D., Professor of Chemistry, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1910. C

White, Laura Bradstreet, 29 Wallingford Road, Brighton, Mass. (60). C

White, Lazarus, C. E., 612 West 137th St., New York, N. Y. (60). D

White, Linden G., E. E., General Superintendent, Columbus Railway and Light Co., Columbus, Ohio. (60). D

White, Mrs. N. G., 1615 New Hampshire Ave. N. W., Washington, D. C. (52).

White, Orland Emile, Bussey Institution, Forest Hills, Mass. (61). G

White, Oscar W., 1116 F St. N. W., Washington, D. C. (52). D

White, Richard J., 10 South St., Baltimore, Md. (60).

White, William E., M. D., Lyons, Wis. (60). K

White, William T., 508 Broad St., Knoxville, Tenn. (58). A C E F G L

*Whitehead, Richard Henry, M. D., LL. D., Dean, Medical Department, University of Virginia, Charlottesville, Va. (58). 1911. K

*Whitehorne, Wm. Risby, Ph. D., Professor of Physics, Bates College, Lewiston, Me. (52). 1911. B C

*Whitfield, J. Edward, Ph. D., 406 Locust St., Philadelphia, Pa. (44). 1896. C

*Whitford, Harry Nichols, Ph. D., Bureau of Forestry, Los Banos, P. I. (54). 1909. G

Whiting, Chas. Allen, M. D., 67 West 49th St., New York, N. Y. (57). K

Whiting, Henry Augustus, M. D., 33 West Mt. Royal Ave., Baltimore, Md. (60). K

*Whiting, Miss Sarah F., Professor of Physics and Astronomy, Wellesley College, Wellesley, Mass. (31). 1883. A B

Whitman, Alfred A., 305 West 78th St., New York, N. Y. (57).

Whitman, E. C., Canso, Nova Scotia. (60).

*Whitman, Frank Perkins, Sc. D., Professor of Physics, Adelbert College, Cleveland, Ohio. (33). 1885. A B

Whitman, Ralph, C. E., U. S. Naval Station, Guantanamo, Cuba. (60). D

Whitmore, Francis E., Curator, Cortland Science Club, Cortland, N. Y. (54).

Whitmore, John Edward, M. D., 355 East Utica St., Buffalo, N. Y. (60). K

Whitmore, Lawrence H., E. M., Box 163, Bulawayo, Rhodesia, South Africa. (60). D

Whitnall, Harold Orville, Assistant Professor of Mineralogy and Economic Geology, Colgate University, Hamilton, N. Y. 61). E

*Whitney, David Day, Ph. D., South College, Middletown, Conn. (60). 1911. F

*Whitney, Miss Mary W., 238 Bacon St., Waltham, Mass. (47). 1900. A

Whitney, Paul C., U. S. Coast and Geodetic Survey, Washington, D. C. (60). E

Whitney, Solon Franklin, 9 Garfield St., Watertown, Mass. (52).

Whitney, Willis Rodney, Ph. D., Director, Research Laboratory, General Electric Co., Schenectady, N. Y. (63). D

Whitson, Andrew Robinson, Route 7, Madison, Wis. (58). B C

*Whittelsey, Theodore, Ph. D., Rubber Regenerating Co., Mishawaka, Ind. (53). 1906.

Whittemore, George W., E. E., 284 New York Ave., Brooklyn, N. Y. (60). D

Whitten, John C., Ph. D., Professor of Horticulture, Missouri Agricultural Experiment Station, Columbia, Mo. (63). G

Whitten, John Hamilton, 603 West Oregon St., Urbana, Ill. (63).

Whittier, Charles T., 78 Brinkerhoff St., Jersey City, N. J. (58). C

*Whittier, Frank Nathaniel, M. D., Professor of Pathology and Bacteriology, Bowdoin College, Brunswick, Me. (54). 1911. K

Whittlesey, George Patten, 1438 Belmont St., Washington, D. C. (63). B

Wiard, Martin S., 21 Walnut St., New Britain, Conn. (60). A

*Wick, Frances Gertrude, Ph. D., Vassar College, Poughkeepsie, N. Y. (60). 1911. B

Wickersham, Judge James, House of Representatives, Washington, D. C. (58). H

Wickes, L. Webster, E. M., 614 So. Grand Ave., Los Angeles, Cal. (58). D

*Wickham, Henry Frederick, Professor of Entomology, State University of Iowa, Iowa City, Iowa. (54). 1908. F

Wickhorst, Max H., Engineer of Tests, 254 South Ave., Aurora, Ill. (60). D

Widtsoe, John Andreas, Ph. D., President, Utah Agricultural College, Logan, Utah. (60). C

Wiechmann, Ferdinand Gerhard, Ph. D., 39 West 38th St., New York, N. Y. (50). F K

Wiedemann, H. Edmund, 721 Holland Bldg., St. Louis, Mo. (58). C

*Wiegand, Karl McKay, Ph. D., Associate Professor of Botany, Wellesley College, Wellesley, Mass. (45). 1899 G

Wieman, Harry Lewis, Ph. D., Laboratory Assistant in Zoology, University of Cincinnati, Cincinnati, Ohio. (58). F

Wiener, Alexander C., M. D., 100 State St., Chicago, Ill. (58). K

Wiener, Solomon, M. D., 67 West 89th St., New York, N. Y. (60). K

Wiggam, Albert Edward, North Vernon, Ind. (63). F

Wigglesworth, Edward, 18 Charles River Square, Boston, Mass. (60).

WIGGLESWORTH, GEORGE, 53 State St., Boston, Mass. (60).

Wight, Ambrose Benson, 300 South Kenilworth Ave., Oak Park, Ill. (58).

*Wight, William Franklin, U. S. Department of Agriculture, Washington, D. C. (54). 1911. G

Wilber, David Truxton, 321 Dryden Road, Ithaca, N. Y. (63). E

Wilbert, Martin I., Hygienic Laboratory, 25th and E Sts. N. W., Washington, D. C. (58). C

Wilbour, Mrs. Charlotte B., 40 Central Park, South, New York, N. Y. (28).

*Wilbur, Albert B., Middleton, N. Y. (23). 1874. E

*Wilbur, Ray Lyman, M. D., 1201 Bryant St., Palo Alto, Cal. (50). 1901. F K

Wilcox, Mrs. Aaron Morley, The Shoreham, Washington, D. C. (52). I

*Wilcox, Edwin Mead, Ph. D., Professor of Agricultural Botany, University of Nebraska, Lincoln, Nebr. (50). 1901. G

Wilcox, Miss Emily T., Middletown, Conn. (33). B

*Wilcox, Guy Maurice, Professor of Physics, Armour Institute of Technology, Chicago, Ill. (53). 1909. B

Wilcox, Reynold Webb, M. D., LL.D., 679 Madison Ave., New York, N. Y. (60). K

*Wilcox, Wendell Garrett, Ph. D., Professor of Chemistry, Alfred University, Alfred, N. Y. (56). 1909. C

*Wilczynski, Ernst Julius, Ph. D., Associate Professor of Mathematics, University of Chicago, Chicago, Ill. (60). 1911. A

*Wilde, Norman, Ph. D., Professor of Philosophy, University of Minnesota, Minneapolis, Minn. (60). 1911. H

*Wilder, Burt Green, M. D., 68 Parker St., Newton Centre, Mass. (51). 1902. F

Wilder, Gerrit P., 1930 Walakaa St., Honolulu, Hawaii. (60). G

Wilder, Leonard H., 1744 Oregon Ave. N. W., Washington, D. C. (62).

Wilder, Wm. H., M. D., 5811 Monroe Ave., Chicago, Ill. (58). K

Wildman, Edward Embree, 214 St. Mark's Square, Philadelphia, Pa. (57).

*Wiley, Harvey Washington, M. D., Ph. D., LL. D., Cosmos Club, Washington, D. C. (21). 1874. B C H I K L

Wiley, Hugh Lemuel, C. E., ... (60). D

Wiley, Walter H., E. M., 367 South Bonnie Brae St., Los Angeles, Cal. (60). D

*Wiley, William Halstead, C. E., 43 East 19th St., New York, N. Y. (50). 1906. D E

Wilkins, Miss Lewanna, 1414 Girard St., Washington, D. C. (52). F G L

*Wilkinson, Levi Washington, Professor of Industrial and Sugar Chemistry, Tulane University, New Orleans, La. (50). 1903. C

*Willard, Prof. Daniel Everett, 312 Northern Pacific Ry., St. Paul, Minn. (62). 1911. E

*Willard, Hobart Hurd, Ph. D., 802 Monroe St., Ann Arbor, Mich. (58). 1911. C

*Willard, Julius Terrass, Sc. D., Professor of Chemistry, Kansas State Agricultural College, Manhattan, Kans. (50). 1906. C

Willard, William A., Professor of Histology and Embryology, University of Nebraska, Lincoln, Nebr. (62). F

*Willcox, Mary Alice, Ph. D., 80 Mountain Ave., Malden, Mass. (50). 1901. F

*Willcox, Oswin W., Ph. D., 10 Lincoln Ave., Dover, N. J. (58). 1911. C

*Willcox, Walter Francis, Ph. D., Professor of Political Economy and Statistics, Cornell University, Ithaca, N. Y. (50). 1901. I

Willetts, Ernest W., M. D., Pathologist to Pennsylvania Hospital, 5101 Liberty Ave., Pittsburg, Pa. (58). K

Williams, Anna Wessels, M. D., 549 Riverside Drive, New York, N. Y. (56). K

Williams, Asa S., 814 Dominion Trust Building, Vancouver, B. C., Canada. (62).

*Williams, Benezette, 153 La Salle St., Chicago, Ill. (33). 1887. D

Williams, C. G., Chief, Department of Agronomy, Ohio Agricultural Experiment Station, Wooster, Ohio. (63). G

*Williams, Charles Herbert, M. D., 1069 Boylston St., Boston, Mass. (22). 1874. B K

Williams, Charles Mallory, M. D., 48 East 49th St., New York, N. Y. (57). H K L

*Williams, Clarke Benedict, Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. (54). 1906. A

Williams, Cyrus V., Professor of Botany, Nebraska Wesleyan University, University Place, Lincoln, Nebr. (62). G

*Williams, Prof. Edward Higginson, Jr., Woodstock, Vt. (25). 1894. E

*Williams, Francis H., M. D., 505 Beacon St., Boston, Mass. (29). 1890. K

*Williams, Frank Blair, Ph. D., Professor of Mathematics, Clark University, Worcester, Mass. (53). 1911. D

Williams, Frank H., Brownsville, Texas. (50). E

Williams, G. C. F., Hartford, Conn. (60). I

Williams, Gardner F., LL. D., 2201 R St., Washington, D. C. (60). D

*Williams, Guy Yandell, 610 West Oregon St., Urbana, Ill. (58). 1911. B C

Williams, Harvey D., 889 St. Nicholas Ave., New York, N. Y. (62).

Williams, Henry J., C. E., 161 Tremont St., Boston, Mass. (60). D

*Williams, Henry Shaler, Ph. D., Professor of Geology, Cornell University, Ithaca, N. Y. (18). 1882. E

Williams, Prof. Horatio Burt, 437 West 59th St., New York, N. Y. (63). K

*Williams, Ira Abraham, Associate Professor of Geology and Mining Engineering, Iowa State College, Ames, Iowa. (52). 1908. D E

*Williams, J. Whitridge, M. D., Sc. D., 1128 Cathedral St., Baltimore, Md. (50). 1901. K

Williams, John C., 221 Orchard St., Ridgway, Pa. (51). E G

Williams, John Edward, Ph. D., Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. (58). A

Williams, John T., 815 Madison Ave., New York, N. Y. (57). A C D

Williams, Miss Katharine I., Llandaff House, Pembroke Vale, Clifton, Bristol, England. (58). C

William, Leon Franklin, Ph. D., North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C. (58). C

*Williams, Leonard Worcester, Ph. D., Harvard Medical School, Boston, Mass. (52). 1906. F

*Williams, Mabel Clare, Ph. D., Asst. Professor of Psychology, State University of Iowa, Iowa City, Iowa. (52). 1911. H L

Williams, Martha R., M. D., Colorado Building, 9th and Vine Sts., Cincinnati, Ohio. (60). K

Williams, Merton Yarwood, 700 Yale Station, New Haven, Conn. (63). E

Williams, Percy Frederic, Professor of Horticulture, Alabama Polytechnic Institute, Auburn, Ala. (61). G

Williams, Roland H., Teachers College, 120th St., New York, N. Y. (60). A C

Williams, Samuel Robinson, Ph. D., Professor of Physics, Oberlin College, Oberlin, Ohio. (63). B

*Williams, Stephen Riggs, Ph. D., Professor of Biology and Geology, Miami University, Oxford, Ohio. (50). 1906. E F

Williams, Mrs. Sydney M., Wellesley, Mass. (60).

Williams, T. S., Huntington, Long Island, N. Y. (60). I

Williams, Thornton R., M. D., Punxsatawney, Pa. (60). K

Williams, William Whitridge, M. D., 1231 No. Cascade Ave., Colorado Springs, Colo. (62). K

Williamson, C. S., Jr., Department of Chemistry, Alabama Polytechnic Institute, Auburn, Alabama. (60). C

*Williamson, Edward Bruce, Bluffton, Ind. (50). 1906. F

Williamson, Henry Dale, E. M., Rising Sun Petroleum Co., Yokohama, Japan. (60). D

Williamson, Mrs. M. Burton, 2343 Ocean View Ave., Los Angeles, Cal. (44). F H

Williamson, Theresa Gertrude, Hannah More Academy, Reisterstown, Md. (58). C G

Willing, Thomas Nathaniel, Saskatoon, Saskatchewan, Canada. (58). F

*Willis, Bailey, U.S. Geological Survey, Washington, D.C. (36). 1890. E

Willis, Park Weed, M. D., 1256 Empire Building, Seattle, Wash. (60). K

*Williston, Prof. Arthur Lyman, 27 Kilsyth Road, Brookline, Mass. (51). 1906. D

Williston, Samuel, 577 Belmont St., Belmont, Mass. (60).

*Williston, Samuel Wendell, M. D., Ph. D., Professor of Paleontology, University of Chicago, Chicago, Ill. (51). 1902. F K

*Willoughby, Charles Clark, Peabody Museum, Cambridge, Mass. (45). 1897. H

*Wills, Albert P., Ph. D., Professor of Mathematical Physics, Columbia University, New York, N. Y. (53). 1906. A B

Wills, Joseph Lainson, 133 Midwood St., Brooklyn, N. Y. (50). B C G

*Willson, Frederick Newton, C. E., Professor of Graphics, Princeton, N. J. (33). 1887. A D

Willson, Mortimer, M. D., 6th and Water Sts., Port Huron, Mich. (50). A F K

*Willson, Robert Wheeler, Ph. D., 64 Brattle St., Cambridge, Mass. (30). 1890. A B

WILMARTH, MRS. HENRY D., West Boxford, Mass. (40).

Wilmore, John Jenkins, Dean, School of Engineering, Alabama Polytechnic Institute, Auburn, Ala. (51). D

*Wilson, Charles Branch, Sc. D., Ph. D., Head, Department of Science, State Normal School, Westfield, Mass. (52). 1906. F

*Wilson, Delonza Tate, Ph. D., Assistant Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio. (53). 1906. A

*Wilson, Edmund Beecher, M. D., Sc. D., Ph. D., LL. D., Professor of Zoology, Columbia University, New York, N. Y. (49). 1900. F

*Wilson, Francis Daniel, Ph. D., Professor of Chemistry, Virginia Polytechnic Institute, Blacksburg, Va. (57). 1909. C

*Wilson, Prof. Guy West, North Carolina Agricultural Experiment Station, West Raleigh, N. C. (58). 1911. G

Wilson, H. P., M. D., Whittier, Cal. (60). K

*Wilson, Harold Albert, Professor of Physics, McGill University, Montreal, Canada. (61). 1911. B

*Wilson, Henry Van Peters, Ph. D., Professor of Zoology, University of North Carolina, Chapel Hill, N. C. (50). 1901. F

Wilson, Herrick East, Walker Museum, University of Chicago, Chicago, Ill. (63). E

WILSON, J. HOWARD, Castine, Me. (57). E H

Wilson, James Meredith, The Alabama, Washington, D. C. (58). C F

Wilson, John C., Cosmos Club, Washington, D. C. (49). I

*Wilson, John Gordon, Assistant Professor of Anatomy, Northwestern University Medical College, Chicago, Ill. (58). 1908. F K

WILSON, LOUIS BLANCHARD, M. D., St. Mary's Hospital, Rochester, Minn. (62). K

Wilson, Miss Margaret B., 72 East 77th St., New York, N. Y. (57). H K

*Wilson, Norman Richard, Ph. D., Lecturer in Mathematics, Wesley College, Winnipeg, Manitoba, Canada. (55). 1907. A

Wilson, Robert, Jr., M. D., 165 Rutledge Ave., Charleston, S. C. (60). K

*Wilson, Robert N., Stand Off, Alberta, Canada. (42). 1895. H

*Wilson, Robert North, Asst. Professor of Chemistry, Trinity College, Durham, N. C. (60). 1911. C

Wilson, Wm. Lawrence, M. E., 411 No. Charles St., Baltimore, Md. (58). D

*Wilson, William Powell, Sc. D., Director, Philadelphia Museums, Philadelphia, Pa. (38). 1889. G

Wily, James Hunter, E. E., Department of Physics, Lehigh University, South Bethlehem, Pa. (60). B D

Wimpfheimer, Chas. A., 131–137 Spring St., New York, N. Y. (57).

*Winchell, Alexander Newton, Sc. D., Professor of Mineralogy and Petrology, University of Wisconsin, Madison, Wis. (50). 1904. C E

*Winchell, Horace Vaughn, 505 Palace Building, Minneapolis, Minn. (34). 1890. C E

*Winchell, Prof. Newton Horace, 501 East River Road, Minneapolis, Minn. (19). 1874. E H

Winchester, Dean E., U. S. Geological Survey, Washington, D. C. (63). E

Windesheim, Gustave, M. D., 255 Main St., Kenosha, Wis. (51). H K

Wing, Henry Hiram, Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (56). F

Wingerter, Charles A., M. D., 75 Twelfth St., Wheeling, W. Va. (60). K

*Winne, Charles K., Jr., M. D., 222 Lark St., Albany, N.Y. (60). 1911. K

*Winslow, Charles Edward Amory, Associate Professor of Biology, College of the City of New York, New York, N. Y., (51). 1903. F K

Winslow, Mrs. C. E. A., 411 West 114th St., New York, N. Y. (52). F

*Winslow, Guy Monroe, Ph. D., Principal, Lasell Seminary, Auburndale, Mass. (58). 1911. F K L

Winston, Isaac, U. S. Coast and Geodetic Survey, Washington, D. C. (55). A

Winston, John Robinson, State College, Pa. (63). G

Winter, Col. Mahlon A., Winter Building, Washington, D. C. (52). D E I K

*Winterhalter, Capt. A. G., U. S. N., The Wyomong, Washington, D. C. (37). 1893. A

Winternitz, Milton C., M. D., Johns Hopkins Hospital, Baltimore, Md. (62). K

Winton, Mrs. Kate Barber, Ph. D., 3801 Lake Ave., Chicago, Ill. (60). C

Winton, Will McClain, Professor of Biology, State Normal School, Edmond, Okla. (58). E F G

Wintringham, J. P., E. E., 153 Henry St., Brooklyn, N. Y. (60). A D

WIRTNER, REV. M., Nicktown, Pa. (58). F

Wiser, Frank C., M. D., 10 North Second Ave., Phœnix, Ariz. (60). K

*Wissler, Clark, Ph. D., Curator of Anthropology, American Museum of Natural History, New York, N. Y. (54). 1906. H

*Withers, William Alphonso, Professor of Chemistry, North Carolina College of Agriculture and Mechanic Arts, Raleigh, N. C. (33). 1891. C

Witherspoon, Thomas Carey, M. D., 307 West Granite St., Butte, Mont. (58). K

*Withrow, James Renwick, Ph. D., Ohio State University, Columbus, Ohio. (60). 1910. C

Witmer, Joseph Franklin, C. E., Chapin Block, Buffalo, N. Y. (60). D

*Witmer, Lightner, Ph. D., Assistant Professor of Psychology, University of Pennsylvania, Philadelphia, Pa. (46). 1905. H

Witmer, Luther F., 2923 Macomb St., Washington, D. C. (60). C

Witte, Max Ernest, M. D., Superintendent, Clarinda State Hospital, Clarinda, Iowa. (51). H K

*Witthaus, Rudolph August, M. D., 2039 Broadway, New York, N. Y. (35). 1890. C K

Wixford, John F., 2223 North Ninth St., St. Louis, Mo. (58). D

Wobus, Reinhard E., M. D., 1105 Salisbury St., St. Louis, Mo. (60). K

*Woelfel, Albert, M. D., Department of Physiology, University of Chicago, Chicago, Ill. (54). 1910. K

Woglum, Russell Sage, U. S. Department of Agriculture, Washington, D. C. (54). F

*Wolcott, Edson Ray, 817 Sheridan Road, Chicago, Ill. (54). 1907. B C D

*Wolcott, Robert Henry, M. D., Professor of Anatomy, University of Nebraska, Lincoln, Nebr. (60). 1911. K

Wolcott, William Prescott, Readville, Mass. (60).

Wolf, Frederick Adolph, Alabama Polytechnic Institute, Auburn, Ala. (60). G

Wolfe, Elmer Ellsworth, Ph. D., Principal of the Academy, Marietta College, Marietta, Ohio. (51). B C L

*Wolff, Frank Alfred, Ph. D., Bureau of Standards, Washington, D. C. (47). 1900. B

Wolff, Henry Albert, M. D., 601 West 149th St., New York, N. Y. (57). K

*Wolff, John Eliot, Ph. D., University Museum, Cambridge, Mass. (36). 1894. E

Wolff, Mark A., E. M., 618 Pacific Bldg., Vancouver, B. C., Canada. (60). D

Woll, Frederic A., Ph. D., College of the City of New York, New York, N. Y. (63). K

*Woll, Fritz Wilhelm, Ph. D., Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (42). 1897. C

Wolverton, Byron C., care Friendship Telephone Co., Syracuse, N. Y. (50). D

Wood, A. E., Kissam Hall, Vanderbilt University, Nashville, Tenn. (61). L

Wood, Alvinus Brier, C. E., Cottage Grove, Ore. (60). D

*Wood, Casey Albert, M. D., President, American Academy of Medicine, 72 Madison St., Chicago, Ill. (56). 1911. F K

Wood, Mrs. Cynthia A., 117 West 58th St., New York, N. Y. (43).

Wood, Miss Elvira, 418 Main St., Waltham, Mass. (47). E

*Wood, Francis Carter, M. D., Professor of Chemical Pathology, Columbia University, New York, N. Y. (57). 1908. K

Wood, Henry A. Wise, 1 Madison Ave., New York, N. Y. (57).

Wood, Henry W. S., 1926 East 73d St., Cleveland, Ohio. (63).

Wood, Herbert Carroll, 3726 Carnegie Ave., Cleveland, Ohio. (60). B E L

*Wood, Horatio C., Jr., M. D., 434 South 44th St., Philadelphia, Pa. (58). 1911. K

*Wood, Stuart, Ph. D., 400 Chestnut St., Philadelphia, Pa. (51). 1906. I

*Wood, Thomas Dennison, M. D., Professor of Physical Education, Teachers College, Columbia University, New York, N. Y. (51). 1902. K

Wood, Walter, 400 Chestnut St., Philadelphia, Pa. (33). F I

Wood, Walter Hallock, Principal, Oakwood Seminary, Union Springs, N. Y. (58). A

Woodard, Silas H., C. E., Scarsdale, N. Y. (60). D

*Woodbridge, Frederick J. E., LL. D., Professor of Philosophy, Columbia University, New York, N. Y. (52). 1905. H

Woodbury, C. G., Purdue University Experiment Station, La Fayette, Ind. (63). G

*Woodbury, Charles J. H., Sc. D., Consulting Engineer, 45 Milk St., Boston, Mass. (29). 1884. B D

Woodbury, Frederick E., E. M., Box 874, Milwaukee, Wis. (60). D

Woodhull, Alfred Alexander, Brigadier-General, U. S. A., Retired, 46 Bayard Lane, Princeton, N. J. (51). K L

*Woodhull, John Francis, Ph. D., Professor of Physical Science, Columbia University, New York, N. Y. (43). 1899. B L

Woodhull, Leon Richard, E. E., Ontario, N. Y. (60). D

Woodhull, Gen. Maxwell Van Zandt, U S. A., 2033 G St. N. W., Washington, D. C. (52).

*Woodman, Alpheus Grant, Massachusetts Institute of Technology, Boston, Mass. (60). 1911. C

Woodman, Joseph Edmund, Sc. D., Professor of Geology and Mineralogy, New York University, University Heights, N. Y. (56). E I L

Woodman, Leon Elmer, Ph. D., Asst. Professor of Physics, University of Maine, Orono, Me. (62). B

Woodruff, Lieut.-Col. Charles Edward, Medical Corps, U. S. A., Chronicle Building, San Francisco, Cal. (54). H I

Woodruff, Eugene Cyrus, Ph. D., Professor of Electrical Engineering, James Millikin University, Decatur, Ill. (63). D

*Woodruff, Lorande Loss, Ph. D., Biological Laboratory, Yale University, New Haven, Conn. (52). 1908. F K

*Woods, Albert F., Dean and Director, Department of Agriculture, University of Minnesota, Minneapolis, Minn. (43). 1897. B C F G H I K L

*Woods, Charles Dayton, Sc. D., Director, Maine Agricultural Experiment Station, Orono, Me. (50). 1901. C

*Woods, Frederick Adams, M. D., 1006 Beacon St., Brookline, Mass. (51). 1902. F H

*Woods, Frederick Shenstone, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (58). 1909. A L

*Woods, Herbert Spencer, Eagle Point, Ore. (58). 1911. C L

Woodward, Augustus Janvier, M. D., Hotel Auburn, Cincinnati, Ohio. (57). E K

*Woodward, Calvin Milton, Ph. D., LL. D., Professor of Mathematics and Applied Mechanics, Washington University, St. Louis, Mo. (32). 1884. A D I

Woodward, Karl W., U. S. Forest Service, Washington, D. C. (63). G

*WOODWARD, R. S., Sc. D., Ph. D., LL. D., President, Carnegie Institution of Washington, Washington, D. C. (33). 1885. A B D

*Woodward, Samuel B., M. D., 58 Pearl St., Worcester, Mass. (51). 1906. E H

Woodward, Sherman M., State University of Iowa, Iowa City, Iowa. (57). A

*Woodworth, Charles William, Asst. Professor of Entomology, University of California, Berkeley, Cal. (50). 1906. F

*Woodworth, Jay Backus, Assistant Professor of Geology, Harvard University, Cambridge, Mass. (54). 1906. E

*Woodworth, Robert Sessions, Ph. D., Professor of Psychology, Columbia University, New York, N. Y. (49). 1901. H K

Woollen, William Watson, 518 American Central Life Building, Indianapolis, Ind. (55). F

Woolley, Andrew Feaster, C. E., Sylvan Beach, N. Y. (60). K

*Woolley, Paul Gerhart, M. D., Professor of Pathologic Anatomy, University of Cincinnati, Cincinnati, Ohio. (55). 1910. C K

*Wooster, Lyman Child, Ph. D., Professor of Biology and Geology, State Normal School, Emporia, Kans. (54). 1911. E F G

*Wooton, Elmer O., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (56). 1911. G

*Worcester, Dean Conant, U. S. Philippine Commission, 16 Nagbajan, Manila, P. I. (46). 1903. F H

Worcester, Philip George, Assistant in Geology, University of Colorado, Boulder, Colo. (60). E

Worcester, Wilfred J., 137 East 37th St., New York, N. Y. (57).

Work, Wm. R., Instructor in Electrical Department, Carnegie Technical Schools, Pittsburg, Pa. (57). D

Workman, Harper M., M. D., Tracy, Minn. (60). K

Worsham, Ernest Lee, State Entomologist, Atlanta, Ga. (58). F

Worsham, William Archer, Professor of Agricultural Chemistry, State College of Agriculture, Athens, Ga. (62). C G

*Worthen, Thomas W. D., Cheney Professor of Mathematics, Dartmouth College, Hanover, N. H. (58). 1911. A

Worthing, Archie Garfield, Ph. D., 10940 Grantwood Ave., Cleveland, Ohio. (63). B

Worthington, Charles C., Shawnee, Pa. (62).

Wright, Alexander Holland, Professor of Chemistry and Biology, Muskingum College, New Concord, Ohio. (62). C F

Wright, Albert Hazen, Ph. D., Instructor in Zoology, Cornell University, Ithaca, N. Y. (56). F

*Wright, Arthur Williams, Ph. D., Emeritus Professor of Experimental Physics, Yale University, New Haven, Conn. (14). 1874. A B

*Wright, Frederic Eugene, Ph. D., U. S. Geophysical Laboratory, Washington, D. C. (52). 1906. B E

*Wright, Rev. George Frederick, D.D., LL. D., Drawer C, Oberlin, Ohio. (29). 1882. E H

Wright, H. B., E. M., ... (60). D

Wright, Hamilton, M. D., Metropolitan Club, Washington, D. C. (58). K

Wright, Henry Wilkes, Ph. D., Professor of Philosophy, Lake Forest College, Lake Forest, Ill. (58). H

Wright, Jasper Heman, Mechanics Institute, Rochester, N. Y. (56). F G

*Wright, John Shepard, care Eli Lilly and Company, Indianapolis, Ind. (42). 1899. G

*Wright, Jonathan, M. D., Director, Department of Laboratories, New York Post-Graduate Medical School, 2d Ave. and 20th St., New York, N. Y. (43). 1911. F H I K

Wright, Reginald Ashmun, M. E., 1959 West Market St., Pottsville, Pa. (60). D

Wright, Robert Claude, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). G

*Wright, Walter Channing, Room 701, 45 Milk St., Boston, Mass. (54). 1906. A L

*Wright, Walter Livingston, Professor of Mathematics, Lincoln University, Pa. (50). 1906. A B

Wright, Prof. William Joseph, New York School of Agriculture, Alfred, N. Y. (63). G

*Wrinch, Frank Sidney, Ph. D., Skyland, Cal. (52). 1906. H K

Wulfing, John M., 3448 Longfellow Boulevard, St. Louis, Mo. (60). H

*Wulling, Frederick John, Ph. D., Dean, College of Pharmacy, University of Minnesota, Minneapolis, Minn. (58). 1910. C

WUNDERLICH, FREDERICK W., M. D., 8 Sydney Place, Brooklyn, N. Y. (45). K

Würster, Oscar H., care Lever Bros., Toronto, Canada. (60). C

Würtele, John Hunter, P. O. Box 242, Spokane, Wash. (48).

*Wurtele, Rev. Louis Campbell, P. O. Box 291, Acton Vale, Quebec, Canada. (11). 1875. E H

Wyant, Alexander L., 141 West 85th St., New York, N. Y. (57).

Wyatt, Francis, Ph. D., 20 Fifth Ave., New York, N. Y. (57). C G

*Wyeth, John Allan, M. D., LL. D., 244 Lexington Ave., New York, N. Y. (60). 1911. K

Wylie, Clarence Raymond, E. E., University of Cincinnati, Cincinnati, Ohio. (60). D

*Wylie, Robert Bradford, Ph. D., Professor of Morphological Botany, State University of Iowa, Iowa City, Iowa. (53). 1905. G

Wynkoop, Gillett, Newburgh, N. Y. (58). C

Wynekoop, Gilbert H., M. D., 4500 Sheridan Road, Chicago, Ill. (60). K

*Yamanouchi, Shigeo, Ph. D., Department of Botany, University of Chicago, Chicago, Ill. (57). 1909. G

*Yanney, Benjamin Franklin, Professor of Mathematics and Astronomy, University of Wooster, Wooster, Ohio. (51). 1906. A

*Yarrow, Harry C., M. D., 926 17th St. N. W., Washington, D. C. (23). 1874. F H K

*Yates, James Anderson, care State Normal School, Pittsburg, Kans. (50). 1911. B C E F

Yates, William H., C. E., 449 West 123d St., New York, N. Y. (60). D

*Yatsu, Naohidé, Ph. D., Zoological Institute, Imperial University, Tokyo, Japan. (56). 1910. F

Yeatman, Pope, E. M., Room 1714, 165 Broadway, New York, N. Y. (58). D

Yeaton, Arthur C., 75 Hartley St., Portland, Me. (60). C

*Yerkes, Robert Mearns, Ph. D., Assistant Professor of Comparative Psychology, Harvard University, Cambridge, Mass. (52). 1905. F H K

Yerzley, Prof. William Alfred, M. E., 250 Littleton Ave., Newark, N. J. (63). D

Yoder, Prof. Albert Henry, President, State Normal School, Whitewater, Wis. (61). H K L

Yoder, Ivan I., M. D., 1410 West 25th St., Cleveland, Ohio. (60). K

York, Harlan Harvey, Brown University, Providence, R. I. (62). G

Yothers, M. A., Asst. Entomologist, Exper. Sta., Pullman, Wash. (63). F
Yothers, William Walter, P. O. Box 599, Orlando, Fla. (55). F
Youmans, Vincent J., 42 Claremont Ave., Mt. Vernon, N. Y. (43).
*Young, Abram Van Epps, Professor of Chemistry, Northwestern University, Evanston, Ill. (33). 1886. B C
*Young, Anne Sewell, Ph. D., Professor of Astronomy, Mt. Holyoke College, South Hadley, Mass. (54). 1907. A
Young, Frank B., M. D., Springdale, Ark. (60). K
*Young, George Albert, Ph. D., Petrographer and Field Geologist, Geological Survey of Canada, Ottawa, Canada. (57). 1911. E
Young, Gilbert A., M. E., Acting Professor of Mechanical Engineering, Purdue University, West Lafayette, Ind. (60). D
Young, Hugh Hampton, M. D., 330 N. Charles St., Baltimore, Md. (53). K
Young, John M., M. E., College of Hawaii, Honolulu, Hawaii. (60). D
Young, Margaret L., 923 No. St. Clair St., E. E., Pittsburg, Pa. (63). I
Young, Robert Thompson, Ph. D., Instructor in Biology, University of North Dakota, University, N. Dak. (60). F
*Young, Stuart Woodford, Associate Professor of Chemistry, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. C
Young, William, E. M., P. O. Box 396, Prince Rupert, B. C., Canada. (60). D
Youngberg, Guy E., South Dakota Agricultural Experiment Station, Brookings, So. Dak. (63). C
*Yowell, Everett Irving, Corbett and Griest Avenues, Station O, Cincinnati, Ohio. (60). 1911. A
Zaleski, Joseph P., M. D., 4645 South Ashland Ave., Chicago, Ill. (60). K
Zamora, Manuel, 162 San Sebastian, Manila, P. I. (63). C
Zapffe, Carl, Box 93, Brainerd, Minn. (58). D E
Zeiss, Carl, care Dr. M. von Rohr, Jena, Germany. (58). A
*Zeit, F. Robert, M. D., Head of Dept. of Pathology and Bacteriology, Northwestern University Medical School, Chicago, Ill. (58). 1911. K
*Zeleny, Anthony, Ph. D., Professor of Physics, University of Minnesota, Minneapolis, Minn. (56). 1908. B
*Zeleny, Charles, Ph. D., Associate Professor of Zoology, University of Illinois, Urbana, Ill. (53). 1905. F
*Zeleny, John, Ph. D., Professor of Physics, University of Minnesota, Minneapolis, Minn. (50). 1901. B
Zemer, Stanley G., ... (61). L
Zerban, Fritz, Ph. D., P. O. Box 238, Experiment Station, Rio Piedras, Porto Rico. (58). C
Zetek, James, Office of Chief Sanitary Inspector, Ancon, C. Z., Panama. (60). F
Zimmerman, John, 389 Hill St., Dubuque, Iowa. (60). A
*Ziwet, Alexander, 644 South Ingalls St., Ann Arbor, Mich. (38). 1890. A
Zook, Leslie L., U. S. Dep. of Agriculture, Washington, D. C. (63). G
Zuber, Wm. H., 609 West Walnut St., Centralia, Washington. (52). B C

NOTE.—The omission of an address in the foregoing list indicates that letters mailed to that last printed were returned as uncalled for. Information as to the present address of the members so indicated is requested by the PERMANENT SECRETARY.

INCORPORATED SCIENTIFIC BODIES.

[Holding membership under the provisions of Article 3 of the Constitution.]

American Geographical Society, Broadway and 156th St., New York, N. Y. (60). E

American Philosophical Society, 104 South Fifth St., Philadelphia, Pa. (60). H

Arizona, University of, Library, Tucson, Ariz. (60).

California, University of, Library, Berkeley, Cal. (52).

Cincinnati, Public Library of, Cincinnati, Ohio. (53).

Deputy Minister, Department of Agriculture, Victoria, B. C. (60). G

District of Columbia, The Public Library of, Washington, D. C. (60).

Georgetown University, Washington, D. C. (52).

Howard Memorial Library, New Orleans, La. (54).

Howard University, Washington, D. C. (63).

Illinois, University of, Library, Urbana, Ill. (61).

Indiana State Library, Room 47, State House, Indianapolis, Ind. (60).

Instituto Geologica Nacional, 6a del Ciprés 176, Mexico, D. F., Mexico. (60). E

Iowa State Teachers School Library, Cedar Falls, Iowa. (58).

Iowa, State University of, Library, Iowa City, Iowa. (54).

Jersey City, Free Public Library of, Jersey City, N. J. (52).

Lincoln High School, Scranton Road and Castle Ave., Cleveland, Ohio. (63).

Manchester Institute of Arts and Sciences, Manchester, N. H. (48).

Marietta College Library, Marietta, Ohio. (51).

Michigan State Normal College, Ypsilanti, Mich. (53).

Minnesota Dept. of Agriculture Library, University Farm, St. Paul, Minn. (61).

Mt. Carmel Scientific Society, Mt. Carmel, Ill. (50).

Mt. Holyoke College, Library of, South Hadley, Mass. (58).

Mt. Union College, Library of, Alliance, Ohio. (62).

Nantucket Maria Mitchell Association, The, Nantucket, Mass. (58). A G

Nebraska, University of, Library, Lincoln, Nebr. (51).

New York School of Philanthropy, Library of, 105 East 22d St., New York, N. Y. (60).

New York State Library, James I. Wyer, Jr., Director, Albany, N. Y. (60).

New York University Library, University Heights, New York, N. Y. (60).

Ohio State University Library, Columbus, Ohio. (54).

Oregon, University of, Library, Eugene, Ore. (60).

P. M. Musser Public Library, Muscatine, Ohio. (51).

Philadelphia, The Free Library of, 13th and Locust Streets, Philadelphia, Pa. (51).

Pratt Institute Free Library, Ryerson St., Brooklyn, N. Y. (52).
Rhode Island Normal School, Providence, R. I. (60).
St. Agnes School, Albany, N. Y. (61).
St. Francis Xavier's College, 30 West 16th St., New York, N. Y. (52).
St. Olaf College Library, Northfield, Minn. (52).
Science Club Library, Earlham College, Earlham, Ind. (54).
Toronto, University of, Library, H. H. Langton, Librarian, Toronto, Canada. (60).
U. S. Artillery School, Library of, Fort Monroe, Va. (62).
Virginia Department of Agriculture and Immigration, Richmond, Va. (51). G
Western Illinois State Normal School, Macomb, Ill. (55).
Wilmington Institute Free Library, Wilmington, Del. (52).

SUMMARY:

Corrected to July 1, 1912.

Patrons, 1; Honorary Fellow, 1; Fellows, 3065; Members, 4974; Total, 8041.

DECEASED MEMBERS.

(A list of deceased members of the Association, so far as known up to May, 1896, the time of publication of the Proceedings of the Springfield meeting (Vol. 44), is given in that volume. At the Buffalo meeting, the Council directed the Permanent Secretary to omit the printing of the full list of deceased members in the annual volumes and to print only the additions to the list. Since the publication of the list printed in the Boston Proceedings (Vol. 59–60–61), notices have been received of the decease of the following members.)

Abraham, Abraham, 420 Fulton St., Brooklyn, N. Y. (43). Died June 28, 1911.

Alexander, Samuel, M. D., 68 West 55th St., New York, N. Y. (60). Died November 29, 1910.

Allderdice, Commander William H., Navy Department, Washington, D. C. (33). Died October 4, 1911.

Andrews, Lucille, Woodbury, N. J. (61). Died November 10, 1911.

Astor, Col. John Jacob, 23 West 26th St., New York, N. Y. (57). Died April 15, 1912.

Atkinson, John B., Earlington, Ky. (26). Died September 21, 1911.

Bancroft, Margaret, Haddonfield, N. J. (61). Died January 3, 1912.

Barnes, Miss Cora F., 6 East 65th St., New York, N. Y. (57). Died 1911.

Bates, Miss Octavia Williams, The Mount Royal, Baltimore, Md. (58). Died 1911.

*Beck, Carl, M. D., St. Mark's Hospital, New York, N. Y. (51). Died 1911.

*Bien, Julius, 140 Sixth Avenue, New York, N. Y. (34). Died December, 1911.

*Blackburn, Isaac Wright, M. D., Government Hospital for the Insane, Washington, D. C., (55). Died June 19, 1911.

Bliss, Hon. Cornelius N., 117 Duane St., New York, N. Y. (49). Died October 9, 1911.

Boas, Emil L., 45 Broadway, New York, N. Y. (50). Died May 3, 1912.

Booth, William T., Englewood, N. J. (58). Died March 21, 1911.

*Bowditch, Henry Pickering, M. D., Ph. D., Jamaica Plain, Mass. (28). Died 1911.

Boyle, David, Provincial Museum, Toronto, Canada. (60). Died 1911.

Bradley, Milton, Springfield, Mass. (44). Died May, 1910.

Bradley, Stephen Rowe, Nyack, N. Y. (51). Died August 6, 1910.

*Brewer, William H., 418 Orange St., New Haven, Conn. (20). Died November, 1910.

*Brinckerhoff, Walter Remsen, M. D., Harvard Medical School, Boston, Mass. (55). Died 1911.

*Brown, Arthur Erwin, Academy of Natural Sciences, Philadelphia, Pa. (51). Died November, 1910.

*Brown, Robert, Yale University Observatory, New Haven, Conn. (11). Died 1911.

*Brush, George Jarvis, Yale University, New Haven, Conn. (4). Died February 6, 1912.

Burke, Charles Vincent, M. D., Dupuyer, Mont. (60). Died 1911.

Burke, Robert E., 156 M Street, South Boston, Mass. (50). Died 1910.

Bush, John C. F., M. D., Wahoo, Nebr. (51). Died June 4, 1909.

*Calvin, Samuel, Ph. D., LL. D., Iowa Geological Survey, Iowa City, Iowa. (37). Died April 17, 1911.

*Carpenter, Franklin R., Ph. D., Equitable Building, Denver, Colo. (50). Died April 1, 1910.

*Chaille, Stanford E., M. D., LL. D., Tulane University, New Orleans, La. (51). Died May 28, 1911.

Chandler, Charles Henry, Ripon College, Ripon, Wis. (28). Died March 29, 1912.

*Chanute, Octave, 61 Cedar Street, Chicago, Ill. (17). Died November 23, 1910.

Charles, Fred Lemar, University of Illinois, Urbana, Ill. (52). Died May 6, 1911.

Church, Colonel Benjamin S., 34 Gramercy Park, New York, N. Y. (57). Died December 9, 1910.

Clements, Joseph, M. D., 1537 South Main St., Wichita, Kans. (52). Died 1911.

Cokefair, Charles Coit, E. E., Duluth, Minn. (60). Died December 13, 1911.

Coleman, Edgar Park, M. E., 271 Franklin St., Buffalo, N. Y. (60). Died 1910.

Conant, Osmyn P., 70 Fifth Avenue, New York, N. Y. (57). Died October 18, 1910.

*Connor, Leartus, M. D., Michigan State Medical Society, Detroit, Mich. (51). Died April, 1911.

*Coquillet, Daniel William, U. S. National Museum, Washington, D. C. (43). Died July 8, 1911.

Coyle, Rev. John S., St. Joseph's College, Philadelphia, Pa. (48). Died 1910.

*Curtis, William E., 1801 Connecticut Avenue, Washington, D. C. (40). Died October 5, 1911.

Davies, William Gilbert, LL. D., 32 Nassau St., New York, N. Y. (49). Died July, 1910.

Dexter, George, 30 Kilby St., Boston, Mass. (60). Died July 2, 1910.

Dods, John C., E. M., 346 West First St., Cherrydale, Kansas. (60). Died September 1, 1911.

*Dudley, William Russel, Stanford University, Cal. (29). Died 1911.

Duncan, Robert Andrew, Honolulu, Hawaii. (58). Died 1910.

Duvigneaud, George A., Chamber of Commerce, Minneapolis, Minn. (55). Died January 31, 1911.

*Emmons, Samuel Franklin, U. S. Geological Survey, Washington, D. C. (26). Died March 28, 1911.

*Fanning, John Thomas, C. E., Kasota Building, Minneapolis, Minn. (29). Died February 6, 1911.

Fast, Richard Ellsworth, West Virginia University, Morgantown, W. Va. (50). (Notified 1911.)

Fisher, George H., 84 Broadway, New York, N. Y. (57). Died February 6, 1910.

Forrester, Robert, Salt Lake City, Utah. (57). Died December 20, 1910.

*Freer, Paul C., Bureau of Science, Manila, P. I. (39). Died April 17, 1912.

Friend, Samuel Henry, M. D., 406 Irving Place, Milwaukee, Wis. (51). Died October 30, 1910.

*Gable, George Daniel, Ph. D., University of Wooster, Wooster, Ohio. (40). Died August 23, 1911.

*Genth, Frederick A., 222 Walnut Street, Philadelphia, Pa. (32). Died September 1, 1910.

Goddard, Miss Martha Freeman, Morris High School, New York, N. Y. (60). Died 1911.

*Goessmann, Charles Anthony, Massachusetts Agricultural College, Amherst, Mass. (18). Died September 1, 1910.

Green, Milbrey, M. D., 567 Columbus Ave., Boston, Mass. (29). Died January, 1911.

Hahn, Walter Louis, Ph. D., U. S. Bureau of Fisheries, Washington, D. C. (57). Died May 31, 1911.

Haines, George M., M. D., Durand, Ill. (60). Died July 5, 1911.

*Hall, Christopher W., University of Minnesota, Minneapolis, Minn. (28). Died May, 1911.

Hall, Thomas R. A., 39 East 42nd St., New York, N. Y. (57). Died February, 1910.

Hallberg, Carl S. N., University of Illinois School of Pharmacy, Chicago, Ill. (60). Died October 22. 1910.

*Hallowell, Miss Susan Maria, Wellesley College, Wellesley, Mass. (33). Died 1911.

Hayes, Rev. Charles H., Chelsea Square, New York, N. Y. (60). Died August 1910.

Hayes, George Washington, C. E., Pennsylvania Chautauqua, Lebanon, Pa. (51). Died June 20, 1910.

Henning, Gus C., 413 Convent Ave., New York, N. Y. (57). Died December 30, 1910.

Herrman, Mrs. Esther, 59 West 56th St., New York, N. Y. (29). Died July 4, 1911.

*Herter, Christian A., M. D., 819 Madison Ave., New York, N. Y. (50). Died December 5, 1910.

Hesse, Conrad E., U. S. Weather Bureau, Washington, D. C. (50). Died 1910.

Hewitt, Charles N., M. D., LL. D., State Board of Health, Red Wing, Minn. Died July 7, 1910.

Hobbs, Perry L., 2047 East 9th St., Cleveland, Ohio. (41). Died April 6, 1912.

Hunt, Charles Wallace, Stapleton, L. I., N. Y. (51). Died March, 1911.

Hurst, Walter E., M. D., 172 West Bethune Ave., Detroit, Mich. (58). Died 1908.

Iorns, Martin J., Government Experiment Station, Mayaguez, Porto Rico. (50). Died 1910.

Janeway, Edward G., M. D., LL. D., 36 West 40th Street, New York, N. Y. (57). Died February 10, 1911.

Jelly, George Frederick, M. D., 69 Newbury St., Boston, Mass. (50). Died October 24, 1911.

Jewett, Charles, M. D., 330 Clinton Avenue, Brooklyn, N. Y. (60). Died August 6, 1910.

Johnson, John W., University of Mississippi, University, Miss. (55). Died 1911.

Keep, Josiah, Mills College, Cal. (60). Died July, 1911.

*King, Franklin Hiram, 1540 University Ave., Madison, Wis. (32). Died August 4, 1911.

*Kinnicutt, Leonard Parker, M. D., Worcester Polytechnic Institute, Worcester, Mass. (28). Died February 6, 1911.

Kinsman, David N., M. D., Columbus, Ohio. (60). Died November 24, 1910.

Knox, Rev. George William, Union Theological Seminary, New York, N. Y. (55). Died April 25, 1912.

*Koch, Waldemar, Ph. D., University of Chicago, Chicago, Ill. (53). Died February 1, 1912.

*Laflamme, J. C. K., Laval University, Quebec, Canada. (29). Died July, 1910.

Lathrop, Moses Craft, M. D., 16 St. John Street, Dover, N. H. (60). Died September 28, 1911.

Lawrance, James P. S., U. S. N., Navy Department, Washington, D. C. (35). Died January 16, 1912.

Lord, Harold, C. E., Honolulu, Hawaii. (60). Died 1910.

Lowe, Morgan M., M. D., 621 Opelousas Ave., Algiers, La. (55). Died 1910.

McBride, Hon. George Wickliffe, Portland, Oregon. (51). Died June 18, 1911.

McClellan, E. S., M. D., Saranac Lake, N. Y. (60). Died December, 1911.

Mackay-Smith, The Right Reverend Alexander, D. D., S. T. D., Philadelphia, Pa. (57). Died November 16, 1911.

McMillan, Smith B., Signal, Ohio. (37). Died April 8, 1911.

McVean, John Jay, C. E., 18 State St., Grand Rapids, Mich. (60). Died August 21, 1910.

Meany, Edward, M. D., Ithaca, N. Y. (60). Died 1911.

Meyer, Edgar J., E. M., 7 Wall Street, New York, N. Y. (60). Died April 15, 1912.

MILLER, EDGAR G., Equitable Bldg., Baltimore, Md. (29). Died December 22, 1910.

Millet, Francis Davis, 25 East 26th St., New York, N. Y. (57). Died April 15, 1912.

Montgomery, Edmund D., M. D., Liendo Plantation, Hempstead, Texas. (50). Died April 17, 1911.

*Montgomery, Thomas H. Jr., Ph. D., University of Pennsylvania, Philadelphia, Pa. (58). Died March 18, 1912.

Morgan, William Rogers, 1155 Broadway, New York, N. Y. (57). Died 1911.

Moseley, Edward Augustus, Interstate Commerce Commission, Washington, D. C. (56). Died April 18, 1911.

*Munson, Welton M., Ph. D., West Virginia Experiment Station, Morgantown, W. Va. (41). Died September, 1910.

*Musser, John Herr, M. D., 1927 Chestnut St., Philadelphia, Pa. (54). Died April 3, 1912.

Nicholson, Edgar H., 33 Kirkland St., Cambridge, Mass. (60). Died 1910.

*Nunn, Richard J., M. D., 5 York St., East, Savannah, Ga. (33). Died June 29, 1910.

*Oliver, Charles Augustus, M. D., 1507 Locust St., Philadelphia, Pa. (54). Died April 8, 1911.

*Olsson-Seffer, Pehr, Ph. D., Apartado 133 Bis, Mexico, D. F., Mexico. (55). Died April 29, 1911.

Page, Herbert M., Manual Training High School, Kansas City, Mo. (60). Died November, 1911.

Palmer, Edward, U. S. National Museum, Washington, D. C. (22). Died April 10, 1911.

Paroutand, A., 37 Murray St., New York, N. Y. (57). Died 1910.

*Pemberton, Henry, 1947 Locust St., Philadelphia, Pa. (54). Died April 11, 1911.

*Penhallow, David Pearce, McGill University, Montreal, Canada. (54). Died October 26, 1910.

Phillips, Frank J., University of Nebraska, Lincoln, Nebr. (60). Died 1911.

PIERREPONT, HENRY E., 216 Columbia Heights, Brooklyn, N. Y. (43). Died November 4, 1911.

Pietrzycki, Marcel, M. D., Dayton, Washington. (51). Died September, 1910.

*Pillsbury, John Henry, Waban School, Waban, Mass. (23). Died December, 1910.

*Pohlman, Julius, M. D., 404 Franklin St., Buffalo, N. Y. (32). Died December, 1910.

*Pond, Raymond Haines, Ph. D., 2573 Decatur Ave., New York, N. Y. (52). Died 1911.

Reed, Edwyn C., del Museo, Concepcion, Chile, S. A. (58). Died November 5, 1910.

Reinhardt, William A. A., 1339 Hull St., Baltimore, Md. (58). Died September 3, 1911.

Renninger, John S., M. D., Marshall, Minn. (31). Died 1911.

*Richards, Mrs. Robert H., Mass. Institute of Technology, Boston, Mass. (23). Died March 30, 1911.

Ritchie, Craig D., 414 North 34th St., Philadelphia, Pa. (51). Died December, 1910.

Robb, James Hampden, 23 Park Avenue, New York, N. Y. (50). Died January 21, 1911.

*Robinson, Stillman Williams, Ohio State University, Columbus, Ohio. (30). Died October 31, 1910.

Rogers, Mrs. William Barton, 117 Marlborough St., Boston, Mass. (60). Died May, 1911.

*Rotch, A. Lawrence, Blue Hill Meteorological Observatory, Hyde Park, Mass. (39). Died April 7, 1912.

Rothschild, Jacob, Hotel Majestic, New York, N. Y. (50). Died April 4, 1911.

Sargent, William Dunlap, E. E., 81 Willoughby St., Brooklyn, N. Y. (60). Died August 10, 1911.

Sawyer, Harris E., U. S. Department of Agriculture, Washington, D. C. (60). Died July 5, 1911.

*Schweitzer, Paul, University of Missouri, Columbia, Mo. (24). Died 1911.

Scribner, Gilbert Hilton, "Inglehurst," Yonkers, N. Y. (57). Died January 5, 1910.

*Scudder, Samuel H., 156 Brattle St., Cambridge, Mass. (13). Died May 17, 1911.

Shaw, Charles Frederick, State College, Pa. (58). Died 1911.

Shepard, Edward M., LL. D., 44 Pierrepont St., Brooklyn, N. Y. (57). Died July 28, 1911.

*Sias, Solomon, M. D., Schoharie, N. Y. (10). Died June 3, 1911.

Sieberg, W. H. I., Hotel Winthrop, New York, N. Y. (57). Died August, 1911.

Sinclair, Albert T., 37 North Beacon St., Allston, Boston, Mass. (58). Died 1911.

Smith, Miss Jane M., 260 Watson Boulevard, Pittsburgh, N. S., Pa. (32). Died November 10, 1911.

*Smith, John Bernhardt, Ph. D., Rutgers College, New Brunswick, N. J. (32). Died March 12, 1912.

Smith, Brig.-Gen. Joseph Rowe, M. D., LL. D., 2135 Spruce St., Philadelphia, Pa. (43). Died 1911.

*Smith, Q. Cincinnatus, M. D., 4148 Center St., San Diego, Cal. (26). Died October 27, 1911.

Smith, Thomas Guilford, LL. D., 203 Ellicott Square, Buffalo, N. Y. (50). Died February 21, 1912.

Smith, William Alexander, 412 Madison Avenue, New York, N. Y. (57). Died May 31, 1911.

Sowdon, Arthur J. C., 66 Beacon Street, Boston, Mass. (60). Died June 3, 1911.

*Stevens, Nettie Maria, Ph. D., Bryn Mawr College, Bryn Mawr, Pa. (54). Died 1912.

Talbot, D. H., Sioux City, Iowa. (58). Died 1911.

*Tarr, Ralph Stockman, Cornell University, Ithaca, N. Y. (49). Died March 21, 1912.

Terry, Frank W., Honolulu, Hawaii. (58). Died November 7, 1911.

*Thomas, Benjamin Franklin, Ph. D., Ohio State University, Columbus, Ohio. (29). Died July 4, 1911.

*Thomas, Mason B., Wabash College, Crawfordsville, Ind. (41). Died 1912.

Thorne, Mrs. Phoebe Anna, 558 Madison Avenue, New York, N. Y. (50). Died 1911.

*Tilghman, B. C., 2210 St. James Place, Philadelphia, Pa. (54). Died 1911.

Uihlein, August, 332 Galena St., Milwaukee, Wis. (51). Died 1911.

Valentine, Ferdinand Charles, M. D., 171 West 71st St., Manhattan, New York, N. Y. (57). Died December 13, 1909.

Vannier, Charles H., 76 Harvard Place, Buffalo, N. Y. (58). Died October 12, 1911.

von Berge, Henry de R., Perry and Mississippi Sts., Buffalo, N. Y. (57). Died November 28, 1911.

Voorhees, Edward B., New Brunswick, N. J. (58). Died June 6, 1911.

Wassall, Joseph W., Lake Forest, Ill. (58). Died 1910.

Weed, J. N., 244 Grand Street, Newburgh, N. Y. (37). Died February 23, 1911.

Weeks, Henry Clay, Bayside, Long Island, N. Y. (57). Died July 1, 1910.

Weems, Mrs. R. A. D., Oakland, Maryland. (60). Died June 9, 1911.

Wells, David Collin, Dartmouth College, Hanover, N. H. (58). Died 1911.

Wetzler, Joseph, 1123 Broadway, New York, N. Y. (36). Died February 22, 1911.

Wheeler, Charles Gilbert, 1401 Masonic Temple, Chicago, Ill. (60). Died January 30, 1912.

Whitcomb, Henry Donald, C. E., 6 North 5th St., Richmond, Va. (58). Died 1911.

White, LeRoy S., 19 Buckingham Ave., Waterbury, Conn. (23). Died February, 1911.

*Whitman, Charles Otis, Ph. D., University of Chicago, Chicago, Ill. (43). Died December 6, 1910.

Williams, Mrs. Chauncey P., 284 State St., Albany, N. Y. (52). Died May 5, 1911.

Wilson, Thomas, The Aberdeen, St. Paul, Minn. (60). Died 1910.

Woodward, William Carpenter, E. E., 5 Charles Field St., Providence, R. I. (50). Died March, 1911.

*Woodworth, William McMichael, Ph. D., Harvard University, Cambridge, Mass. (44). Died 1912.

*Wyman, Walter, M. D., U. S. Public Health and Marine Hospital Service, Washington, D. C. (51). Died November 20, 1911.

Young, Charles I., E. E., North American Building, Philadelphia, Pa. (60). Died January 19, 1912.

Zeigler, J. L., M. D., Mount Joy, Pa. (52). Died 1905.

THE SIXTY-SECOND MEETING

MINNEAPOLIS, MINN.

DECEMBER 27 to 31, 1910

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.

ELIAKIM H. MOORE, Chicago.

Secretary.

GEORGE A. MILLER, Urbana.

Member of Council.

G. B. HALSTED, Greeley.

Sectional Committee.

ERNEST W. BROWN, Vice-President, 1910; ELIAKIM H. MOORE, Vice-President, 1911; G. A. MILLER, Secretary.
HARRIS HANCOCK, 1 year; F. R. MOULTON, 2 years; E. W. BROWN, 3 years; WINSLOW UPTON, 4 years; E. R. SMITH, 5 years.

Member of General Committee.

HARRY W. TYLER, Boston.

For list of papers presented before this Section at the Minneapolis meeting, see report of Secretary of Section A in *Science*, N. S. Vol. XXXIII, No. 837, January 13, 1911, pp. 74–77.

For address of retiring Vice-President ERNEST W. BROWN, see *Science*, same volume, No. 838, January 20, 1911, pp. 79–93. Title: The Relations between Jupiter and the Asteroids.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
EDWARD B. ROSA, Washington.

Secretary.
A. D. COLE, Columbus.

Member of Council.
W. S. FRANKLIN, Bethlehem.

Sectional Committee.

LOUIS A. BAUER, Vice-President, 1910; EDWARD B. ROSA, Vice-President, 1911; A. D. COLE, Secretary.
A. TROWBRIDGE, 1 year; E. B. ROSA, 2 years; A. P. CARMAN, 3 years; G. F. HULL, 4 years; E. L. NICHOLS, 5 years.

Member of General Committee.
F. P. WHITMAN, Cleveland.

AMERICAN PHYSICAL SOCIETY.

HENRY CREW, President.
ERNEST MERRITT, Secretary.

For list of papers presented before this Section at the Minneapolis meeting, see report of Secretary of Section B in *Science*, N. S. Vol. XXXIII, No. 842, February 17, 1911, pp. 255–259.

For address of retiring Vice-President L. A. BAUER, see *Science*, same volume, No. 837, January 13, 1911, pp. 41–54. Title: The Broader Aspects of Research in Terrestrial Magnetism.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.

CHRISTOPHER W. HALL,* Minneapolis.

Acting Secretary.

F. F. GROUT, Pillsbury Hall.

(In absence of F. P. GULLIVER, Norwich.)

Member of Council.

A. P. BRIGHAM, Hamilton.

Sectional Committee.

R. W. BROCK, 1910; C. W. HALL,* 1911; F. P. GULLIVER, Secretary; E. O. HOVEY, Preceding Secretary.

E. H. BARBOUR, 1 year; J. B. WOODWORTH, 2 years; F. B. TAYLOR, 3 years; G. K. GILBERT, 4 years; C. W. HAYES, 5 years; *Ex-officio:* ARNOLD HAGUE, President, G. S. A.; E. O. HOVEY, Secretary, G. S. A.; H. C. COWLES, President, A. A. G.; A. P. BRIGHAM, Secretary, A. A. G.

Member of General Committee.

GEORGE OTIS SMITH, Washington.

For list of papers presented before this Section at the Minneapolis meeting, see report of Acting Secretary of Section E in *Science*, N. S. Vol. XXXIII, No. 847, March 24, 1911, pp. 461–469.

[Owing to the absence of retiring Vice-President REGINALD W. BROCK, there was no vice-presidential address delivered before Section E at this meeting.]

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*Deceased.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.

JACOB REIGHARD, Ann Arbor.

Secretary.

MAURICE A. BIGELOW, New York.

Member of Council.

FRANCIS L. LANDACRE, Columbus.

Sectional Committee.

W. E. RITTER, Vice-President, 1910; JACOB REIGHARD, Vice-President, 1911; M. A. BIGELOW, Secretary.
A. W. BLEILE, 1 year; A. L. TREADWELL, 2 years; C. C. NUTTING, 3 years; EDWIN LINTON, 4 years; H. F. NACHTRIEB, 5 years.

Member of General Committee.

EDWARD L. RICE, Delaware, Ohio.

For list of papers presented before the joint session of this Section with the American Society of Zoologists (Central Branch) at the Minneapolis meeting, see report of Secretary in *Science*, N. S. Vol. XXXIII, No. 842, February 17, 1911, pp. 264–275.

For address of retiring Vice-President WILLIAM E. RITTER, see *Science*, same volume, No. 847, March 17, 1911, pp. 437–441. Title: The Controversy between Materialism and Vitalism: Can it be Ended?

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.

ROBERT A. HARPER, Madison.

Secretary.

HENRY C. COWLES, Chicago.

Member of Council.

A. D. SELBY, Wooster.

Sectional Committee.

D. P. PENHALLOW,* Vice-President, 1910; R. A. HARPER, Vice-President, 1911; HENRY C. COWLES, Secretary; F. E. LLOYD, Preceding Secretary.

C. R. BARNES,* 1 year; W. TRELEASE, 2 years; R. A. HARPER, 3 years; D. T. MACDOUGAL, 4 years; H. M. RICHARDS, 5 years; *Ex-officio:* ERWIN F. SMITH, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; F. L. STEVENS, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.

GEORGE F. ATKINSON, Ithaca.

For list of papers presented before this Section at the Minneapolis meeting, see report of Secretary of Section G in *Science*, N. S. Vol. XXXIII, No. 842, February 17, 1911, pp. 259–264.

[Owing to the death of retiring Vice-President DAVID P. PENHALLOW, there was no vice-presidential address delivered before Section G at this meeting.]

*Deceased.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
ROLAND B. DIXON, Cambridge.

Secretary.
GEORGE GRANT MACCURDY, New Haven.

Member of Council.
FRANZ BOAS, New York.

Member of General Committee.
CHARLES PEABODY, Cambridge.

Sectional Committee.

WILLIAM H. HOLMES, Vice-President, 1910; ROLAND B. DIXON, Vice-President, 1911; GEORGE GRANT MACCURDY, Secretary.
FRANZ BOAS, 1 year; W. H. HOLMES, 2 years; R. B. DIXON, 3 years. G. A. DORSEY, 4 years; G. B. GORDON, 5 years; *Ex-officio:* W. B. PILLSBURY, President, American Psychological Association; A. H. PIERCE, Secretary, American Psychological Association; H. M. BELDEN, President, American Folk-Lore Society; CHARLES PEABODY, Secretary, American Folk-Lore Society.

[No meeting of Section H was held and no papers were presented before this Section at the Minneapolis meeting.]

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.

THEODORE E. BURTON, Cleveland.

Secretary.

FRED C. CROXTON, Washington.

Member of Council.

JOHN FRANKLIN CROWELL.

Sectional Committee.

BYRON W. HOLT, Vice-President, 1910; THEODORE E. BURTON, Vice-President, 1911; FRED C. CROXTON, Secretary.
SEYMOUR C. LOOMIS, 1 year; W. R. LAZENBY, 2 years; CHARLES A. CONANT, 3 years; IRVING FISHER, 4 years; JOHN F. CROWELL, 5 years.

Committee.

SIMEON E. BALDWIN, JOHN FRANKLIN CROWELL, H. T. NEWCOMB, IRVING FISHER, JOHN B. CLARK, FRANK R. RUTTER, WILLIAM R. LAZENBY.

Member of General Committee.

WILLIAM R. LAZENBY, Columbus.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.

FREDERICK G. NOVY, Ann Arbor.

Secretary.

GEORGE T. KEMP, Baltimore.

Member of Council.

THOMAS G. LEE, Minneapolis.

Sectional Committee.

CHARLES S. MINOT, Vice-President, 1910; FREDERICK G. NOVY, Vice-President, 1911; GEORGE T. KEMP, Secretary.
GRAHAM LUSK, 1 year; JACQUES LOEB, 2 years; ELIAS P. LYON, 3 years; WM. J. GIES, 4 years; WM. H. HOWELL, 5 years.

Member of General Committee.

CLARENCE M JACKSON, Columbia.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.

A. ROSS HILL, Columbia.

Secretary.

C. RIBORG MANN, Chicago.

Member of Council.

CHARLES S. HOWE, Cleveland.

Sectional Committee.

JAMES E. RUSSELL, Vice-President, 1910; A. ROSS HILL, Vice-President, 1911; C. R. MANN, Secretary.
E. L. THORNDIKE, 1 year; C. S. WOODWARD, 2 years; C. H. JUDD, 3 years; E. E. BROWN, 4 years; JOHN DEWEY, 5 years.

Member of the General Committee.

C. H. JUDD, Chicago.

For list of papers presented before Section L at the Minneapolis meeting, including the joint sessions of the section with the American Psychological Association and the American Federation of Teachers of the Mathematical and the Natural Sciences see 1911 Annual Report of the U. S. Commissioner of Education (whole Number 478), Vol. 1, pp. 235–237.

[Owing to the absence of retiring Vice-President JAMES E. RUSSELL, there was no vice-presidential address delivered before Section L at the Minneapolis meeting.]

EXECUTIVE PROCEEDINGS

EXECUTIVE PROCEEDINGS.

REPORT OF GENERAL SECRETARY.

The sixty-second meeting of the American Association for the Advancement on Science was held at the University of Minnesota, Minneapolis. December 27 to 31, 1910. The registered number of members in attendance was approximately 500, but the actual attendance was probably not far from 1,200. Both in registration and attendance the meeting was an advance upon those of St. Louis and New Orleans. It also furnished an illuminating answer to the question whether a successful and well-attended meeting can be held in the middle west.

All meetings of the sections and affiliated societies were held on the campus of the university, with the exception of the Thursday sessions of the botanists and the entomologists, which were held at the College of Agriculture. Three public addresses were held. On Tuesday evening, the retiring president, Dr. David Starr Jordan, gave his address, "The Making of a Darwin," in Minneapolis. On Thursday evening, Mr. W. A. Bryan gave an illustrated public lecture on the Hawaiian volcano Kilauea. On Wednesday evening in St. Paul, Mr. A. B. Stickney delivered a public lecture on the subject, "Should Practical Agriculture and the Physical Development of Childhood be Added to the Curriculum of the Public Schools." Of general interest also was the symposium on aviation under the auspices of Section D on Friday, and the unusually well-attended dinner and convention of Sigma Xi on the afternoon of the same day.

Section A and the Chicago Section of the American Mathematical Society met for the most part in joint session, with a total of 34 papers. On Friday afternoon they considered the report of the Committee on the Teaching of Mathematics to Students of Engineering. Section B and the American Physical Society met constantly in joint sessions, at which 33 papers were presented. In addition, a general interest session in charge of Section B was held on Thursday morning, while in the afternoon Sections B and D met jointly for the reading of the vice-presidential addresses.

In accordance with the present plan, Section C held no meetings apart from a session for the delivery of the vice-presidential address. All sessions of the general program were essentially joint sessions, though under the auspices of the American Chemical Society. Two addresses and 8 papers were presented at the general meetings. Sixteen papers were read before the Division of Agricultural and Food Chemistry, 12 before the Division of Fertilizer Chemistry, 4 before the Division of Pharmaceutical Chemistry, and 8 before the Chemical Education Section. The largest number of

papers, 47, was given before the Division of Physical and Inorganic Chemistry; 44 were read before the Biological Section, 27 before the Industrial Chemists and Chemical Engineers, and 17 before the Division of Organic Chemistry.

Twelve papers were presented before Section D in the symposium on aeronautics, and 10 were given on the regular program. Before Section E, the program consisted of 5 papers on Economic Geology, 7 on Structural Geology, 7 on Glacial Geology and 6 on Geography. Section F and the Central Branch of the American Society of Zoologists met regularly in joint session, with a program containing 43 papers. Fifty-eight titles appeared on the programs of the Entomological Society of America and the American Association of Economic Entomologists. The meetings of the Association of Horticultural Inspectors were given largely to reports of committees and to discussions. Five zoological papers were also presented at the meetings of the American Microscopical Society.

Section G, the Botanical Society of America, and the American Phytopathological Society met regularly in joint session, except on Friday morning, when simultaneous sessions of the section and the pathologists were necessary to complete the program. The features were the special addresses before the joint session on Wednesday afternoon, under the auspices of Section G, and the symposium on plant pathology at the College of Agriculture on Thursday, under the auspices of the Botanical Society. An interesting innovation was a conference on botanical teaching at the close of the botanical dinner on Thursday evening. Seventy-one papers were presented at the botanical sessions. The program of the Sullivant Moss Society consisted of 12 papers on mosses, liverworts and lichens. The American Nature-Study Society held three symposia on Friday, devoted to the subjects: "The School Garden as a Nature Study Laboratory," "Natural History Museums in Relation to Nature Study Instruction," and "The Organization of Nature Study."

Section H held no meeting, but the American Psychological Association and the Western Philosophical Association were both in session. The two met in joint session on Thursday, and in session with Section L on Wednesday. Thirty-four papers were presented. Twelve papers were read before Section I. The symposium before Section K was devoted to the subject, "Diseases due to Filterable Organisms." In addition, a number of papers were presented in the general program. Section L met in joint session with the American Psychological Association, for the discussion of the topic, "Educational Psychology," and in joint session with the American Federation of Teachers of the Mathematical and Natural Sciences to discuss the topic, "Methods of Testing the Results of Science Teaching." The section also held a general interest session on university extension teaching, in addition to the program of 7 reports on investigations in education. The meeting of the American Federation of Teachers of the Mathematical and Natural Sciences was devoted to the reports of committees on various subjects.

The important actions taken by the council at the Minneapolis meeting were as follows:

1. A committee on organization and correlation was appointed, consisting of nine members, of which four were to be members of the council. This committee reported the following recommendations: "The committee recommends to the council that each section, when the corresponding affiliated society is meeting at the same time and place, shall confine its sessions at the annual meeting preferably to half a day or at most to two half days, and that the sectional program shall include the address of the vice-president and a series of papers of general interest prepared by invitation issued by the committee of the section." The recommendation of the committee was adopted, and on motion the council resolved further that it regards with especial favor holding all sessions under the joint auspices of the section and the appropriate affiliated society.

2. A resolution was adopted as follows:

"WHEREAS, serious injury and injustice would be done to scientific societies and scientific journals should such societies be forbidden to send scientific journals to members by second-class postage,

"*Resolved*, That the American Association for the Advancement of Science, meeting in Minneapolis, request the Postmaster General and the Committees on the Post Office of the Senate and the House of Representatives to give careful attention to the effects of any ruling of the department that might limit the advancement and diffusion of science in this country.

"*Resolved*, That copies of these resolutions be sent to the Postmaster General and to members of the Committees on Post Office of the Senate and the House of Representatives."

The officers of the Association were instructed, officially and in the name of the Association, to take such steps as will aid in the passage of the Dodds bill.

3. The election of fellows of the Association was placed upon the basis of professional work in science, in the hope that greater uniformity will thus be secured in the action of sectional committees.

4. The usual grant of $200 was given to the Concilium Bibliographicum, and an additional grant of $75 to Professor G. J. Peirce for continuing the study of organisms in brines.

The general committee voted to hold the next meeting of the Association in Washington from December 27 to December 30, and to reaffirm the action contemplating meetings in Cleveland and Toronto for 1912 and 1913 respectively. The following officers were chosen for the Washington meeting:

President—C. E. Bessey, University of Nebraska.

Vice-Presidents—*Section A*, Mathematics and Astronomy, E. B. Frost, Yerkes Observatory; *Section B*, Physics, R. A. Millikan, University of Chicago; *Section C*, Chemistry, F. K. Cameron, Department of Agriculture, Washington; *Section D*, Mechanical Science and Engineering, C. S. Howe, Case School of Applied Science; *Section E*, Geology and Geography, Bohumil Shimek, University of Iowa; *Section F*, Zoology, H. F. Nachtrieb, University of Minnesota; *Section G*, Botany, F. C. Newcombe, University of Michigan; *Section H*, Anthropology and Psychology, G. T. Ladd, Yale University; *Section I*, Social and Economic Science, no election; *Section K*,

Physiology and Experimental Medicine, W. T. Porter, Harvard University; *Section L*, Education, E. L. Thorndike, Columbia University.

General Secretary—John Zeleny, University of Minnesota.

Secretary of the Council—T. S. Palmer, Washington, D. C.

FREDERIC E. CLEMENTS,
General Secretary.

REPORT OF THE TREASURER.

1910.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements and disposition of funds of the Association for the year ending December 31, 1910.

Receipts have come into the keeping of the Treasurer from interest on invested funds to the aggregate amount of $634.22.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $669.51.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1910, is $21,265.22.

The details of receipts, disbursements and disposition of funds are shown in the itemized statement on following pages, dated May 1, 1911.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1910			
Jan. 1.	To balance from last account		$21,300.51
Dec. 31.	To interest on funds deposited in banks as follows:		
	From Cambridge Savings Bank, Cambridge, Mass.	$41.20	
	From Emigrant Industrial Savings Bank, New York, N. Y.	119.10	
	From Metropolitan Savings Bank, New York, N. Y.	115.96	
	From Union Square Savings Bank, New York, N. Y.	104.17	
	From United States Trust Co., New York, N. Y.	150.00	
	From International Banking Corporation, Washington, D. C.	103.79	
			634.22
	Total		$21,934.73

I hereby certify that the foregoing account is correctly cast and properly vouched.

THEO. N. GILL,
Auditor.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

CR.

1910.			
Feb. 24.	By grant paid to Wm. D. Hoyt		$75.00
	By grant paid to Concilium Bibliographicum		75.00
	By grant paid to George J. Peirce		75.00
	By grant paid to T. D. A. Cockerell		75.00
Mar. 12.	By interest on 222 Life Memberships paid to Permanent Secretary		369.51
Dec. 31.	By cash in banks as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,061.22	
	In Emigrant Industrial Savings Bank, New York, N .Y	3,074.76	
	In Metropolitan Savings Bank, New York, N. Y	2,986.77	
	In Union Square Savings Bank, New York, N. Y	3,057.47	
	In United States Trust Co., New York, N. Y	6,150.00	
	In International Banking Corporation, Washington, D. C	2,672.97	
	In Fifth Avenue Bank of New York, New York, N. Y	2,262.03	
			21,265.22
	Total		$21,934.73

REPORT OF THE PERMANENT SECRETARY.

The matters heretofore referred to in the report of the Permanent Secretary, in so far as they relate to the annual meeting, have been covered in the report of the executive proceedings prepared by the General Secretary, and duplication is avoided by omitting them under the present head.

The following is a comparative statement of the roll of members of record at the time of the annual meetings as noted:

	Surviving Founders	Living Patrons	Living Honorary Fellows	Fellows	Members	Totals
Washington.....	3	2	3	1197	2787	3992
St. Louis.....	3	2	3	1195	2812	4005
Philadelphia....	2	2	3	1253	2781	4041
New Orleans....	2	2	3	1351	2963	4321
New York.....	2	2	3	1847	2644	4498
Chicago.....	2	2	2	1871	3237	5114
Baltimore.....	2	2	2	1969	4161	6136
Boston.....		2	1	2195	5732	7950
Minneapolis.....		2	1	2395	5614	8012
Washington.....		1	1	3065	4974	8041

L. O. HOWARD,
Permanent Secretary.

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1909,

DR.

To balance from last account		$2,847.07
Annual dues for 1910	$20,840.00	
Annual dues for 1911	128.50	
Annual dues for previous years	453.00	
Admission fees	1,858.00	
Associate fees	72.00	
Life membership fees	650.00	
		24,001.50
Publications	$91.65	
Bindings	44.00	
Unclassified receipts, including interest, postage, treasurer's payment on *Science* subscriptions for Life Members	692.93	
		828.58
		$27,677.15

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $3,329.39 is with the following Washington, D. C., banks:

American National Bank	$411.23
American Security & Trust Co	2,911.43
National Savings & Trust Co	6.73
	$3,329.39

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1910.

CR.

By publication:		
Publishers *Science*	$14,711.55	
Preliminary announcement and Boston pamphlet	361.02	
		$15,072.57
By expenses Boston meeting:		
Programs and maps	$718.89	
Secretaries' expenses and commutations	1,128.61	
Committee on Publications	68.70	
Badges, assistance and general expenses	271.01	
		2,187.21
By office expenses, including propaganda work:		
Postage	$1,109.45	
Extra clerical help	633.24	
Installing addressograph	463.89	
Circulars, blanks, printing, express, telegrams, etc	656.25	
		2,862.83
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,200.00	
		2,700.00
By miscellaneous disbursements:		
Refunds for over-paid dues, etc	$25.15	
Transferred to treasurer	1,500.00	
		1,525.15
By balance to new account		3,329.39
		$27,677.15

Report of the Treasurer.

1911.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements and disposition of funds of the Association for the year ending December 31, 1911.

Receipts have come into the keeping of the Treasurer from interest on invested funds to the aggregate amount of $642.31.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $512.94.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1911, is $21,394.59.

The details of receipts, disbursements and disposition of funds are shown in the itemized statement on following pages, dated June 1, 1912.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1911.			
Jan. 1.	To balance from last account		$21,265.22
	To interest on funds deposited in banks as follows:		
	From Cambridge Savings Bank, Cambridge, Mass	$42.86	
	From Emigrant Industrial Savings Bank, New York, N. Y	119.48	
	From Metropolitan Savings Bank, New York, N. Y	119.72	
	From Union Square Savings Bank, New York, N. Y	104.24	
	From United States Trust Co., New York, N. Y.*	148.04	
	From United States Trust Co., Washington, D. C.†	107.97	
			642.31
	Total		$21,907.53

*Interest up to October 28, 1911.

†Successor to International Banking Corporation.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

CR.

1911.			
Feb. 15.	By grant paid to Geo. J. Peirce		$75.00
	By grant paid Concilium Bibliographicum Zoologicum		100.00
May 20.	By interest on 227 Life Memberships paid Permanent Secretary		337.94
Dec. 31.	By cash in banks as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,104.08	
	In Emigrant Industrial Savings Bank, New York, N. Y	3,094.24	
	In Metropolitan Savings Bank, New York, N. Y	3,106.49	
	In Union Square Savings Bank, New York, N. Y	3,061.71	
	In United States Trust Co., New York, N. Y	8,099.30	
	In United States Trust Co., Washington, D. C	2,780.94	
	In the Fifth Avenue Bank of New York, New York, N. Y	147.83	
			21,394.59
	Total		$21,907.53

I hereby certify that the foregoing account is correctly cast and properly vouched.

THEO. N. GILL,
Auditor.

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1910,

DR.

To balance from last account		$3,329.39
Annual dues for 1911	$20,387.50	
Annual dues for 1912	208.90	
Annual dues for previous years	300.00	
Admission fees	2,475.00	
Associate fees	18.00	
Life membership fees	941.00	
		24,330.40
Publications	$16.35	
Bindings	9.18	
Unclassified receipts, including interest, postage, treasurer's payment on *Science* subscriptions for Life Members	581.35	
		606.88
		$28,266.67

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $4,231.22 is with the following Washington, D. C., banks:

American National Bank	$1,261.28
American Security & Trust Co	2,969.94
	$4,231.22

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1911.

CR.

By publications:		
Proceedings, Volumes 59, 60, 61	$2,597.87	
Publishers *Science*	14,417.92	
Preliminary Announcement	123.25	
		$17,139.04
By expenses Minneapolis meeting:		
Secretaries' expenses and commutations	$742.97	
Badges, assistance and general expenses	77.45	
		820.42
By office expenses, including propaganda work:		
Postage	$1,666.64	
Extra clerical help	871.55	
Circulars, blanks, printing, expressage, telegrams, telephone, stationery, etc	837.80	
		3,375.99
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,200.00	
		2,700.00
By balance to new account		4,231.22
		$28,266.67

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A35c

CONSTITUTION

LIST OF MEETINGS, OFFICERS, COMMITTEES,

FELLOWS AND MEMBERS

OF THE

American Association for the Advancement of Science

SIXTY-THIRD MEETING
Washington, D. C.
December 27 to 30, 1911

SIXTY-FOURTH MEETING
Cleveland, Ohio
December 30, 1912, to January 4, 1913

SIXTY-FIFTH MEETING
Atlanta, Georgia
December 29, 1913, to January 3, 1914

SIXTY-SIXTH MEETING
Philadelphia, Pa.
December 28, 1914, to January 2, 1915

PUBLISHED BY THE PERMANENT SECRETARY
Corrected to June 22, 1915

EDITED BY
L. O. HOWARD
Permanent Secretary

WASHINGTON
PRESS OF GIBSON BROS.
1915

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Officers of the Washington Meeting.

(December 27 to 30, 1911.)

PRESIDENT.

CHARLES E. BESSEY*, University of Nebraska, Lincoln, Nebraska.

VICE-PRESIDENTS.

A.—*Mathematics and Astronomy*—EDWIN B. FROST, Yerkes Observatory, Williams Bay, Wis.

B.—*Physics*—ROBERT A. MILLIKAN, University of Chicago, Chicago, Ill.

C.—*Chemistry*—FRANK K. CAMERON, U. S. Department of Agriculture, Washington, D. C.

D.—*Mechanical Science and Engineering*—CHARLES S. HOWE, Case School of Applied Science, Cleveland, Ohio.

E.—*Geology and Geography*—BOHUMIL SHIMEK, State University of Iowa, Iowa City, Iowa.

F.—*Zoology*—HENRY F. NACHTRIEB, University of Minnesota, Minneapolis, Minn.

G.—*Botany*—FREDERICK C. NEWCOMBE, University of Michigan, Ann Arbor, Mich.

H.—*Anthropology and Psychology*—GEORGE T. LADD, Yale University, New Haven, Conn.

I.—*Social and Economic Science*—J. PEASE NORTON, Yale University, New Haven, Conn.

K.—*Physiology and Experimental Medicine*—WILLIAM T. PORTER, Harvard Medical School, Boston, Mass.

L.—*Education*—EDWARD L. THORNDIKE, Columbia University, New York, N. Y.

PERMANENT SECRETARY.

L. O. HOWARD, Smithsonian Institution, Washington, D. C.

GENERAL SECRETARY.

JOHN ZELENY, University of Minnesota, Minneapolis, Minn.

SECRETARY OF THE COUNCIL.

HENRY E. SUMMERS, Ames, Iowa, in absence of
THEODORE S. PALMER, U. S. Department of Agriculture, Washington, D. C.

SECRETARIES OF THE SECTIONS.

A.—*Mathematics and Astronomy*—GEORGE A. MILLER, University of Illinois, Urbana, Ill.

B.—*Physics*—A. D. COLE, Ohio State University, Columbus, Ohio.

C.—*Chemistry*—C. H. HERTY, University of North Carolina, Chapel Hill, N. C.

D.—*Mechanical Science and Engineering*—G. W. BISSELL, Michigan Agricultural College East Lansing, Mich.

E.—*Geology and Geography*—F. P. GULLIVER, Norwich, Conn.

F.—*Zoology*—MAURICE A. BIGELOW, Columbia University, New York, N. Y.

G.—*Botany*—HENRY C. COWLES, University of Chicago, Chicago, Ill.

H.—*Anthropology and Psychology*—GEORGE GRANT MACCURDY, Yale University, New Haven, Conn.

I.—*Social and Economic Science*—SEYMOUR C. LOOMIS, 69 Church Street, New Haven, Conn.

K.—*Physiology and Experimental Medicine*—GEORGE T. KEMP, 8 West 25th Street, Baltimore, Md.

L.—*Education*—C. RIBORG MANN, University of Chicago, Chicago, Ill.

TREASURER.

R. S. WOODWARD, Carnegie Institution of Washington, Washington, D. C.

ASSISTANT SECRETARY.

F. S. HAZARD, Office of the A. A. A. S., Smithsonian Institution, Washington, D. C.

---

*Deceased.

Members of Council of the Washington Meeting.

(December 27 to 30, 1911.)

Past Presidents.—GEORGE J. BRUSH,* New Haven; EDWARD S. MORSE, Salem; T. C. MENDENHALL, Worcester; GEORGE L. GOODALE, Cambridge; EDWARD W. MORLEY, West Hartford; THEODORE N. GILL,* Washington; F. W. PUTNAM, Cambridge; G. K. GILBERT, Washington; R. S. WOODWARD, Washington; C. S. MINOT,* Boston; IRA REMSEN, Baltimore; W. G. FARLOW, Cambridge; C. M. WOODWARD,* St. Louis; WM. H. WELCH, Baltimore; E. L. NICHOLS, Ithaca; T. C. CHAMBERLIN, Chicago; DAVID STARR JORDAN, Stanford University; A. A. MICHELSON, Chicago.

Vice-Presidents of the Boston Meeting.—E. W. BROWN, New Haven; L. A. BAUER, Washington; WILLIAM MCPHERSON, Columbus; J. F. HAYFORD, Evanston; R. W. BROCK, Ottawa; W. E. RITTER, San Diego; D. F. PENHALLOW,* Montreal; WM. H. HOLMES, Washington; BYRON W. HOLT, New York; C. S. MINOT,* Boston; JAMES E. RUSSELL, New York.

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Officers of the Washington Meeting.—CHARLES E. BESSEY,* Lincoln; EDWIN B. FROST, Williams Bay; R. A. MILLIKAN, Chicago; FRANK K. CAMERON, Washington; CHARLES S. HOWE, Cleveland; BOHUMIL SHIMEK Iowa City; HENRY F. NACHTRIEB, Minneapolis; F. C. NEWCOMBE, Ann Arbor; GEORGE T. LADD, New Haven; J. PEASE NORTON, New Haven; W. T. PORTER, Boston; EDWARD L. THORNDIKE, New York; L. O. HOWARD, Washington; JOHN ZELENY, Minneapolis; THEODORE S. PALMER, Washington; G. A. MILLER, Urbana; A. D. COLE, Columbus; C. H. HERTY, Chapel Hill; G. W. BISSELL, East Lansing; F. P. GULLIVER, Norwich; M. A. BIGELOW, New York; H. C. COWLES, Chicago; G. G. MACCURDY, New Haven; SEYMOUR C. LOOMIS, New Haven; GEORGE T. KEMP, Baltimore; C. R. MANN, Chicago; R. S. WOODWARD, Washington.

From the Association at Large.—(*A*). E. O. LOVETT, Houston; (*B*). O. M. STEWART, Columbia; (*C*). W. P. BRADLEY, Middletown; (*D*). ALBERT F. ZAHM, Washington; (*E*). A. P. BRIGHAM, Hamilton; (*F*). WILLIAM A. LOCY, Evanston; (*G*). F. C. NEWCOMBE, Ann Arbor; (*H*). FRANZ BOAS, New York; (*I*). JOHN F. CROWELL, New York; (*K*). SAMUEL J. MELTZER, New York; (*L*). JAMES E. RUSSELL, New York.

Elected by the Council.—(For one year) HENRY B. WARD, WM. TRELEASE, L. P. KINNICUTT*; (for two years) J. MCK. CATTELL, J. M. COULTER, N. L. BRITTON; (for three years) H. L. FAIRCHILD, FRANZ BOAS, IRVING FISHER.

From the Affiliated Societies.—American Chemica ıSociety: ALEXANDER SMITH, C. L. PARSONS; *Geological Society of America:* WILLIAM M. DAVIS,

*Deceased.

E. O. HOVEY; *Botanical Society of America:* ERWIN F. SMITH, DUNCAN S. JOHNSON; *American Microscopical Society:* C. H. EIGENMANN, T. W. GALLOWAY; *American Psychological Association:* C. H. JUDD; *American Society of Naturalists:* H. S. JENNINGS, A. G. MAYER; *American Association of Economic Entomologists:* HENRY E. SUMMERS, E. D. SANDERSON; *American Anthropological Association:* R. B. DIXON, G. B. GORDON; *Astronomical and Astrophysical Society of America:* GEORGE C. COMSTOCK, WILLIAM J. HUSSEY; *American Physical Society:* W. F. MAGIE, M. G. LLOYD; *Society of American Bacteriologists:* F. L. STEVENS; *Association of American Anatomists:* SIMON H. GAGE; *Society for Horticultural Science:* W. M. MUNSON*; *Entomological Society of America:* J. B. SMITH,* HERBERT OSBORN; *American Society of Mechanical Engineers:* ALEXANDER C. HUMPHREYS, HENRY G. REIST; *American Institute of Electrical Engineers:* EDWARD B. ROSA, JOHN B. WHITEHEAD; *American Society of Civil Engineers:* CHARLES WARREN HUNT, GEORGE GIBBS; *American Institute of Mining Engineers:* H. O. HOFMAN, S. F. EMMONS*; *American Medical Association:* GEORGE H. SIMMONS, GEORGE M. KOBER; *American Federation of Teachers of the Mathematical and Natural Sciences:* H. W. TYLER, OTIS W. CALDWELL; *Association of American Geographers:* R. S. TARR,* A. P. BRIGHAM; *American Society of Zoologists* (Central Branch): C. P. SIGERFOOS; *American Phytopathological Society:* A. D. SELBY, C. L. SHEAR.

*Deceased.

Local Executive Committee of the Washington Meeting.

ROBERT S. WOODWARD, *Honorary Chairman.*
FRANK WIGGLESWORTH CLARKE, *Chairman.*
L. O. HOWARD, *Permanent Secretary, A. A. A. S.*

MARCUS BENJAMIN,
WILLIAM J. HUMPHREYS,
CORNELIUS L. SHEAR,
HUGH M. SMITH,

CHARLES J. BELL, *Treasurer.*

Local Finance Committee.

CHARLES D. WALCOTT, *Chairman,*
HUGH M. SMITH, *Secretary,*
GILBERT H. GROSVENOR,
CHARLES J. BELL, *Treasurer, ex officio.*

Honorary Reception Committee.

THE PRESIDENT OF THE UNITED STATES.

HON. JOHN BARRETT,
Director, Bureau of American Republics.
DR. ALEXANDER GRAHAM BELL.
HON. T. E. BURTON, U. S. S.,
Member of the Association.
MR. GEO. F. BOWERMAN,
Librarian, Public Library.
PROF. F. W. CLARKE,
President of the Washington Academy of Sciences.
PROF. W. N. DAVIDSON,
Superintendent of Schools.
MR. JOHN JOY EDSON.
PROF. GROVE K. GILBERT,
Ex-President of the Association.
DR. T. N. GILL,
Ex-President of the Association.
MR. C. C. GLOVER,
President, Board of Trustees, Corcoran Gallery of Art.
MR. JOHN HAYS HAMMOND.
REV. J. J. HIMMEL,
President, Georgetown University.
MR. A. LISNER.
MR. JAMES F. OYSTER,
President, Board of Education.
President, Chamber of Commerce.
MR. HERBERT PUTNAM,
Librarian of Congress.
HON. ELIHU ROOT, U. S. S.,
Member of the Association.
HON. CUNO H. RUDOLPH,
President, Board of Commissioners of the District of Columbia.
REV. T. J. SHAHAN,
President, Catholic University of America.
REAR ADMIRAL C. H. STOCKTON, U. S. N.,
President, George Washington University.
MR. JAMES BROWN SCOTT,
Secretary, Carnegie Peace Endowment.
DR. W. P. THIRKIELD,
President, Howard University.
DR. C. D. WALCOTT,
Secretary, Smithsonian Institution.
MR. JUSTICE WHITE,
Chief Justice of the United States.
DR. H. W. WILEY,
President, Cosmos Club.
MR. GARDNER F. WILLIAMS.
MR. ELLIOTT WOODS,
Superintendent of the Capitol.
DR. R. S. WOODWARD,
President, Carnegie Institution of Washington.
MR. S. W. WOODWARD.

Active Reception Committee.

THE FIVE HUNDRED AND SIXTY RESIDENT MEMBERS OF THE ASSOCIATION CONSTITUTED THE ACTIVE RECEPTION COMMITTEE FOR THE WASHINGTON MEETING.

Ladies Reception Committee.

MRS. R. S. WOODWARD, *Chairman.*

MRS. GEORGE F. BARKER.
MRS. L. A. BAUER.
MRS. MARCUS BENJAMIN.
MRS. F. W. CLARKE.
MRS. F. V. COVILLE.
MRS. WHITMAN CROSS.
MRS. JOHN JOY EDSON.
MRS. DAVID G. FAIRCHILD.
MRS. GILBERT H. GROSVENOR.
MRS. ARNOLD HAGUE.
MRS. W. H. HOLMES.
MRS. L. O. HOWARD.
MRS. W. J. HUMPHREYS.
MRS. F. E. LEUPP.
MRS. C. HART MERRIAM.
MRS. G. P. MERRILL.
MISS MORGAN.
MRS. C. E. MUNROE.
MRS. SIMON NEWCOMB.
MRS. RICHARD RATHBUN.
MRS. JAMES BROWN SCOTT.
MRS. S. W. WOODWARD.
MRS. F. E. WRIGHT.

Officers of the Cleveland Meeting.

(December 30, 1912, to January 4, 1913.)

PRESIDENT.

EDWARD C. PICKERING, Harvard College Observatory, Cambridge, Mass.

VICE-PRESIDENTS.

A.—*Mathematics and Astronomy*—EDWARD B. VAN VLECK, University of Wisconsin, Madison, Wis.

B.—*Physics*—ARTHUR G. WEBSTER, Clark University, Worcester, Mass.

C.—*Chemistry*—W. LASH MILLER, University of Toronto, Toronto, Canada.

D.—*Mechanical Science and Engineering*—JOSEPH A. HOLMES, U. S. Bureau of Mines, Washington, D. C.

E.—*Geology and Geography*—JAMES E. TODD, University of Kansas, Lawrence, Kansas.

F.—*Zoology*—WILLIAM A. LOCY, Northwestern University, Evanston, Ill.

G.—*Botany*—DUNCAN S. JOHNSON, Johns Hopkins University, Baltimore, Md.

H.—*Anthropology and Psychology*—J. WALTER FEWKES, Bureau of American Ethnology, Washington, D. C.

I.—*Social and Economic Science*—JOHN HAYS HAMMOND, 71 Broadway, New York, N. Y.

K.—*Physiology and Experimental Medicine*—JOHN J. R. MACLEOD, Western Reserve Medical College, Cleveland, Ohio.

L.—*Education*—JAMES MCKEEN CATTELL, Columbia University, New York, N. Y.

PERMANENT SECRETARY.

L. O. HOWARD, Smithsonian Institution, Washington, D. C.

GENERAL SECRETARY.

HENRY E. SUMMERS, Iowa State College, Ames, Iowa.

SECRETARY OF THE COUNCIL.

HARRY W. SPRINGSTEEN, Western Reserve University, Cleveland, Ohio.

SECRETARIES OF THE SECTIONS.

A.—*Mathematics and Astronomy*—GEORGE A. MILLER, University of Illinois, Urbana, Ill.

B.—*Physics*—WILLIAM J. HUMPHREYS, U. S. Weather Bureau, Washington, D. C.

C.—*Chemistry*—C. H. HERTY, University of North Carolina, Chapel Hill, N. C.

D.—*Mechanical Science and Engineering*—G. W. BISSELL, Michigan Agricultural College, East Lansing, Mich.

E.—*Geology and Geography*—GEORGE F. KAY, University of Iowa, Iowa City, Iowa.

F.—*Zoology*—MAURICE A. BIGELOW, Columbia University, New York, N. Y.

G.—*Botany*—HENRY C. COWLES, University of Chicago, Chicago, Ill.

H.—*Anthropology and Psychology*—GEORGE GRANT MACCURDY, Yale University, New Haven, Conn.

I.—*Social and Economic Science*—SEYMOUR C. LOOMIS, 69 Church Street, NewHaven, Conn.

K.—*Physiology and Experimental Medicine*—WALDEMAR KOCH,* University of Chicago, Chicago, Ill.

L.—*Education*—C. RIBORG MANN, University of Chicago, Chicago, Ill.

TREASURER.

R. S. WOODWARD, Carnegie Institution of Washington, Washington, D. C.

ASSISTANT SECRETARY.

F. S. HAZARD, Office of the A. A. A. S., Smithsonian Institution, Washington, D. C.

*Deceased.

Members of Council of the Cleveland Meeting.

(December 30, 1912, to January 4, 1913.)

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Vice-President, Philadelphia, PAUL H. HANUS; Vice-President, San Francisco and Columbus, ELLWOOD P. CUBBERLEY; Secretary, STUART A. COURTIS; Preceding Secretary, C. RIBORG MANN; WILLIAM C. BAGLEY, 1 year; A. ROSS HILL, 2 years; WALTER F. DEARBORN, 3 years; E. L. THORNDIKE, 4 years; P. P. CLAXTON, 5 years.

Member of General Committee.

LIGHTNER WITMER, Philadelphia.

SECTION M—AGRICULTURE.

Vice-President and Chairman of the Section.

EUGENE DAVENPORT, Urbana.

Secretary.

EDWIN W. ALLEN, Washington.

Member of Council.

WILLIAM A. TAYLOR, Washington.

Sectional Committee.

Vice-President, Philadelphia, L. H. BAILEY; Vice-President, San Francisco and Columbus, EUGENE DAVENPORT; Secretary, EDWIN W. ALLEN; CHARLES W. DABNEY, 1 year; WHITMAN H. JORDAN, 2 years; H. A. MORGAN, 3 years; EDWARD H. JENKINS, 4 years; KENYON L. BUTTERFIELD, 5 years.

Member of General Committee.

A. C. TRUE, Washington.

SPECIAL COMMITTEES OF THE ASSOCIATION.†

1. *Auditor.*

HERBERT A. GILL, Washington.

2. *Committee on the Policy of the Association.*‡

THE PRESIDENT; THE PERMANENT SECRETARY; (to serve for one year), ARTHUR A. NOYES, ROBERT S. WOODWARD, J. MCKEEN CATTELL; (to serve for two years), D. T. MACDOUGAL, WILLIAM J. HUMPHREYS, EDWARD L. NICHOLS; (to serve for three years), H. L. FAIRCHILD, EDWARD C. PICKERING, STEWART PATON.

3. *Committee on the Bibliography of Science.*

J. MCKEEN CATTELL, *Chairman;* ROBERT S. WOODWARD, JAMES LEWIS HOWE, WILLIAM TRELEASE, CHARLES B. DAVENPORT.

4. *Committee of One Hundred on National Health.*

IRVING FISHER, *Chairman;* PAUL KENNADAY, *Executive Secretary;* EDWARD T. DEVINE, *Secretary.*

5. *Committee on Organization and Membership.*

J. MCKEEN CATTELL, *Chairman;* L. O. HOWARD, ——————.

6. *Committee on Delegates from Government Bureaus and Scientific Institutions.*

STEWART PATON, *Chairman;* JAMES MCKEEN CATTELL, L. O. HOWARD.

7. *Committee on Expert Testimony.*

EDWARD C. PICKERING, *Chairman;* JOSEPH A. HOLMES, ELIHU ROOT, WILLIAM H. WELCH, EDMUND B. WILSON, ARTHUR D. LITTLE.

8. *Committee of One Hundred on Scientific Research.*

W. W. CAMPBELL, Director of the Lick Observatory, President of the Association, *Chairman;* CHARLES W. ELIOT, President Emeritus of Harvard University; E. C. PICKERING, Director of the Harvard College Observatory, *Chairman of the Executive Committee;* FRANK D. ADAMS, Professor of Geology, McGill University; C. L. ALSBERG, Chief of the Bureau of Chemistry, U. S. Department of Agriculture; J. S. AMES, Professor of Physics, Johns Hopkins University; J. R. ANGELL, Professor of Psychology, University of Chicago; S. E. BALDWIN, Professor of Law in Yale University; W. D. BANCROFT, Professor of Physical Chemistry, Cornell University; CHARLES E. BESSEY,* Professor of Botany, University of Nebraska; FRANZ BOAS, Professor of Anthropology, Columbia University; N. L. BRITTON, Director of the New York Botanical Garden; ERNEST W. BROWN, Professor of Mathematics, Yale University; DOUGLAS H. CAMPBELL, Professor of Botany, Stanford University; W. B. CANNON, Professor of Physiology, Harvard Medical School; J. MCKEEN CATTELL, Professor of Psychology, Columbia University, *Secretary;* T. C. CHAMBERLIN, Professor of Geology,

†All Committees are expected to present their reports to the Council not later than the third day of the meeting. Committees sending their reports to the Permanent Secretary one month before a meeting can have them printed for use at the meeting.

‡Three members to be elected annually. Non-attendance at the meetings for one year by any member will constitute resignation from this Committee.

*Deceased.

University of Chicago; R. H. CHITTENDEN, Professor of Physiological Chemistry, Yale University; ALFRED D. COLE, Professor of Physics, Ohio State University; EDWIN G. CONKLIN, Professor of Zoology, Princeton University; F. G. COTTRELL, U. S. Bureau of Mines, San Francisco, Cal.; JOHN M. COULTER, Professor of Botany, University of Chicago; W. T. COUNCILMAN, Professor of Pathology, Harvard University; CHARLES R. CROSS, Professor of Physics, Massachusetts Institute of Technology; C. B. DAVENPORT, Director of the Station for Experimental Evolution, Carnegie Institution; WILLIAM M. DAVIS, Emeritus Professor of Geology, Harvard University; ARTHUR L. DAY, Director of the Geophysical Laboratory, Carnegie Institution; JOHN DEWEY, Professor of Philosophy, Columbia University; H. H. DONALDSON, Professor of Neurology, Wistar Institute of Anatomy; H. L. FAIRCHILD, Professor of Geology, University of Rochester; W. G. FARLOW, Professor of Cryptogamic Botany, Harvard University; IRVING FISHER, Professor of Economics, Yale University; SIMON FLEXNER, Director of the Laboratories, Rockefeller Institute for Medical Research; EDWARD C. FRANKLIN, Professor of Organic Chemistry, Stanford University; THEODORE GILL,* Professor of Zoology, George Washington University; GEORGE L. GOODALE, Emeritus Professor of Botany, Harvard University; KARL E. GUTHE, Professor of Physics, University of Michigan; GEORGE E. HALE, Director of Mount Wilson Solar Observatory, Carnegie Institution; ROSS G. HARRISON, Professor of Comparative Anatomy, Yale University; JOHN F. HAYFORD, Director of the College of Engineering, Northwestern University; JOSEPH A. HOLMES, Chief of the Bureau of Mines; L. O. HOWARD, Chief of the Bureau of Entomology; CHARLES S. HOWE, President of the Case School of Applied Science; WILLIAM H. HOWELL, Professor of Physiology, The Johns Hopkins University; W. J. HUMPHREYS, Professor of Meteorology, U. S. Weather Bureau; REID HUNT, Professor of Pharmacology, Harvard University; DAVID STARR JORDAN, Chancellor, Stanford University; WILLIAM W. KEEN, Emeritus Professor of Surgery, Jefferson Medical College, President of the American Philosophical Society; JAMES F. KEMP, Professor of Geology, Columbia University; ARMIN O. LEUSCHNER, Professor of Astronomy, University of California; FRANK R. LILLIE, Professor of Embryology, University of Chicago; JACQUES LOEB, Head of Department of Experimental Biology, Rockefeller Institute for Medical Research; D. T. MACDOUGAL, Director of the Department of Botanical Research, Carnegie Institution; R. C. MACLAURIN, President of the Massachusetts Institute of Technology; J. PLAYFAIR MCMURRICH, Professor of Anatomy, University of Toronto; FRANKLIN P. MALL, Professor of Anatomy, Johns Hopkins University; C. F. MARVIN, Chief of the U. S. Weather Bureau; C. KENNETH MEES, Eastman Kodak Company, Rochester, N. Y.; T. C. MENDENHALL, President Emeritus, Worcester Polytechnic Institute; A. A. MICHELSON, Professor of Physics, University of Chicago; G. A. MILLER, Professor of Mathematics, University of Illinois; R. A. MILLIKAN, Professor of Physics, University of Chicago; CHARLES S. MINOT,* Professor of Comparative Anatomy, Harvard Medical School; E. H. MOORE, Professor of Mathematics, University of Chicago; GEORGE T. MOORE, Director of the Missouri Botanical Garden; T. H. MORGAN, Professor of Experimental Zoology, Columbia University; EDWARD W. MORLEY, Emeritus Professor of Chemistry, Western Reserve University; EDWARD S. MORSE, Director, Peabody Academy of Science; FOREST R. MOULTON, Professor of Astronomy, University of Chicago; HERBERT V. NEAL, Professor of Biology, Tufts College; EDWARD L. NICHOLS, Professor of Physics, Cornell University; ARTHUR A. NOYES, Director of the Research Laboratory of Physical Chemistry, Massachusetts Institute of Technology; W. A. NOYES, Professor of Chemistry, University of Illinois; HENRY F. OSBORN, President of the American Museum of Natural History, Research Professor of Zoology, Columbia University; R. M. PEARCE, Professor of

*Deceased.

Research Medicine, University of Pennsylvania; F. W. PUTNAM, Emeritus Professor of Anthropology, Harvard University; IRA REMSEN, Professor of Chemistry, Johns Hopkins University; THEODORE W. RICHARDS, Professor of Chemistry, Harvard University; EDWARD B. ROSA, Chief Physicist, Bureau of Standards; FRANK SCHLESINGER, Director of the Allegheny Observatory; WILLIAM T. SEDGWICK, Professor of Biology, Massachusetts Institute of Technology; EDGAR F. SMITH, Provost of the University of Pennsylvania; G. OTIS SMITH, Director of the U. S. Geological Survey; HUGH M. SMITH, U. S. Commissioner of Fisheries; THEOBALD SMITH, Professor of Comparative Pathology, Harvard University; JULIUS STIEGLITZ, Professor of Analytical Chemistry, University of Chicago; CH. WARDELL STILES, Zoologist, U. S. Public Health Service; SAMUEL W. STRATTON, Director of the Bureau of Standards; ELIHU THOMSON, Thomson-Houston and General Electric Companies; EDWARD B. TITCHENER, Professor of Psychology, Cornell University; OTTO H. TITTMANN, formerly chief of the U. S. Coast and Geodetic Survey; CHARLES R. VAN HISE, President of the University of Wisconsin; CHARLES D. WALCOTT, Secretary of the Smithsonian Institution; HENRY B. WARD, Professor of Zoology, University of Illinois; THOMAS L. WATSON, Professor of Economic Geology, University of Virginia, and Director of the Virginia Geological Survey; ARTHUR G. WEBSTER, Professor of Physics, Clark University; WILLIAM H. WELCH, Professor of Pathology, Johns Hopkins University, President of the National Academy of Sciences; WILLIAM M. WHEELER, Professor of Economic Entomology, Harvard University; WILLIS R. WHITNEY, Director of the Research Laboratory, General Electric Company; EDMUND B. WILSON, Professor of Zoology, Columbia University; ROBERT S. WOODWARD, President of the Carnegie Institution of Washington.

9. *Committee on Amendment of the Charter.*

CHARLES W. ELIOT, *Chairman;* E. C. PICKERING, ROSCOE POUND.

10. *Committee on Finance.*

ROBERT S. WOODWARD, *Chairman;* WILLIAM J. HUMPHREYS, L. O. HOWARD.

11. *Committee on Jane M. Smith Life Membership Fund.*

THE PRESIDENT, THE TREASURER, AND THE PERMANENT SECRETARY.

12. *Committee on the Pacific Coast Meeting.*

WILLIAM WALLACE CAMPBELL, *Chairman;* MAXWELL ADAMS, JOHN CASPER BRANNER, MELVIN AMOS BRANNON, ENOCH ALBERT BRYAN, WILLIAM ALANSON BRYAN, HENRY SMITH CARHART, CHARLES LINCOLN EDWARDS, WILLIAM TRUFANT FOSTER, GEORGE ELLERY HALE, MELLEN WOODMAN HASKELL, EUGENE WOLDEMAR HILGARD, GEORGE HOLMES HOWISON, OLIVER PEEBLES JENKINS, DAVID STARR JORDAN, VERNON LYMAN KELLOGG, CHARLES ATWOOD KOFOID, ALFRED LOUIS KROEBER, HENRY LANDES, ANDREW COWPER LAWSON, ARMIN OTTO LEUSCHNER, EXUM PERCIVAL LEWIS, JAMES HARVEY MCBRIDE, DANIEL TREMBLY MACDOUGAL, LILLIEN JANE MARTIN, JOHN CAMPBELL MERRIAM, JOSEPH FRANCIS MERRILL, AGNES CLAYPOLE MOODY, WILLIAM EMERSON RITTER, HARRIS JOSEPH RYAN, FERNANDO SANFORD, WILLIAM ALBERT SETCHELL, JOHN MAXON STILLMAN, LYMAN BRUMBAUGH STOOKEY, BENJAMIN IDE WHEELER.

13. *Committee on Organization of Brazilian Division.*

SEÑOR EDUARDO BRAGA, *Chairman.*

MEETINGS AND OFFICERS OF THE ASSOCIATION OF AMERICAN GEOLOGISTS AND NATURALISTS.

Meeting.	Date.	Place.	Chairman.	Secretary.	Assistant Secretary.	Treasurer.
1st	April 2, 1840,	Philadelphia,	Edw. Hitchcock,*	L. C. Beck,*		
2d	April 5, 1841,	Philadelphia,	Benj. Silliman,*	L. C. Beck,*	B. Silliman, Jr.,* C. B. Trego,*	
3d	April 25, 1842,	Boston,	S. G. Morton,*	C. T. Jackson,*	J. D. Whitney,* M. B. Williams,*	
4th	April 26, 1843,	Albany,	Henry D. Rogers,*	B. Silliman, Jr.,*		John Locke.*
5th	May 8, 1844,	Washington,	John Locke,*	B. Silliman, Jr.,* O. P. Hubbard,*		Douglas Houghton.*
6th	April 30, 1845,	New Haven,	Wm. B. Rogers,*	B. Silliman, Jr.,* J. Law. Smith,*		Douglas Houghton.*
7th	Sept. 2, 1846,	New York,	C. T. Jackson,*	B. Silliman, Jr.,*		E. C. Herrick.*
8th	Sept. 20, 1847,	Boston,	Wm. B. Rogers,*†	Jeffries Wyman,*		B. Silliman, Jr.*

* Deceased.

† Professor Rogers, as chairman of this last meeting, called the first meeting of the new Association to order and presided until it was fully organised by the adoption of a constitution. As he was thus the first presiding officer of the new Association, it was directed at the Hartford meeting that his name be placed at the head of the Past Presidents of the American Association for the Advancement of Science.

Meetings.	Place.	Date.	Members in attendance.	Number of members.
1	Philadelphia	Sept. 20, 1848	(?)	461
2	Cambridge	Aug. 14, 1849	(?)	540
3	Charleston	Mar. 12, 1850	(?)	622
4	New Haven	Aug. 19, 1850	(?)	704
5	Cincinnati	May 5, 1851	87	800
6	Albany	Aug. 19, 1851	194	769
7	Cleveland	July 28, 1853	(?)	940
8	Washington	April 26, 1854	168	1,004
9	Providence	Aug. 15, 1855	166	605
10	2d Albany	Aug. 20, 1856	381	722
11	Montreal	Aug. 12, 1857	351	946
12	Baltimore	April 28, 1858	190	962
13	Springfield	Aug. 3, 1859	190	862
14	Newport	Aug. 1, 1860	135	644
15	Buffalo	Aug. 15, 1866	79	637
16	Burlington	Aug. 21, 1867	73	415
17	Chicago	Aug. 5, 1868	259	686
18	Salem	Aug. 18, 1869	244	511
19	Troy	Aug. 17, 1870	188	536
20	Indianapolis	Aug. 16, 1871	196	668
21	Dubuque	Aug. 15, 1872	164	610
22	Portland	Aug. 20, 1873	195	670
23	Hartford	Aug. 12, 1874	224	722
24	Detroit	Aug. 11, 1875	165	807
25	2d Buffalo	Aug. 23, 1876	215	867
26	Nashville	Aug. 29, 1877	173	953
27	St. Louis	Aug. 21, 1878	134	962
28	Saratoga	Aug. 27, 1879	256	1,030
29	Boston	Aug. 25, 1880	997	1,555
30	2d Cincinnati	Aug. 17, 1881	500	1,699
31	2d Montreal	Aug. 23, 1882	937	1,922
32	Minneapolis	Aug. 15, 1883	328	2,033
33	2d Philadelphia	Sept. 3, 1884	*1,261	1,981
34	Ann Arbor	Aug. 26, 1885	364	1,956
35	3d Buffalo	Aug. 18, 1886	445	1,886
36	New York	Aug. 10, 1887	729	1,956
37	2d Cleveland	Aug. 14, 1888	342	1,964
38	Toronto	Aug. 26, 1889	424	1,952
39	2d Indianapolis	Aug. 19, 1890	364	1,944
40	2d Washington	Aug. 19, 1891	†653	2,054
41	Rochester	Aug. 17, 1892	456	2,037
42	Madison	Aug. 17, 1893	290	1,939
43	Brooklyn	Aug. 15, 1894	488	1,802
44	2d Springfield	Aug. 28, 1895	368	1,913
45	4th Buffalo	Aug. 24, 1896	333	1,890
46	2d Detroit	Aug. 9, 1897	‡283	1,782
47	2d Boston	Aug. 22, 1898	903	1,729
48	Columbus	Aug. 21, 1899	353	1,721
49	2d New York	June 25, 1900	434	1,925
50	Denver	Aug. 24, 1901	311	2,703
51	Pittsburgh	June 28 to July 3, 1902	435	3,473
52	3d Washington	Dec. 29, 1902, to Jan. 3, 1903	975	3,992
53	2d St. Louis	Dec. 26, 1903, to Jan. 1, 1904	385	4,005
54	3d Philadelphia	Dec. 28 to 31, 1904	890	4,041
55	New Orleans	Dec. 28, 1905, to Jan. 2, 1906	233	4,321
56	Ithaca	June 28 to July 3, 1906	232	4,425
57	3d New York	Dec. 27, 1906, to Jan. 2, 1907	934	4,498
58	2d Chicago	Dec. 30, 1907, to Jan. 4, 1908	725	5,114
59	Hanover	June 29 to July 3, 1908	125	6,072
60	2d Baltimore	Dec. 28, 1908, to Jan. 2, 1909	1,088	6,136
61	3d Boston	Dec. 27, 1909, to Jan. 1, 1910	1,140	7,950
62	2d Minneapolis	Dec. 27 to 31, 1910	663	8,012
63	4th Washington	Dec. 27 to 30, 1911	1,402	8,041
64	3d Cleveland	Dec. 30, 1912, to Jan. 4, 1913	720	8,333
65	Atlanta	Dec. 29, 1913, to Jan. 3, 1914	450	8,350
66	4th Philadelphia	Dec. 28, 1914, to Jan. 2, 1915	1,319	8,325

*Including 303 Members of the British Association and 9 other foreign guests.
†Including 24 Foreign Honorary Members for the meeting.
‡Including 15 Foreign Honorary Members and Associates for the meeting.

Officers of the Meetings of the Association.

[The number before the name is that of the meeting; the year of the meeting follows the name; the asterisk after a name indicates that the member is deceased.]

PRESIDENTS.

1. WM. B. ROGERS,* 1848.
   W. C. REDFIELD,* 1848.
2. JOSEPH HENRY,* 1849.
3. A. D. BACHE,* March meeting, 1850, in the absence of
4. JOSEPH HENRY.* August meeting, 1850.
5. May meeting, 1851.
6. LOUIS AGASSIZ,* August meeting, 1851.
   (No meeting in 1852.)
7. BENJAMIN PIERCE,* 1853.
8. JAMES D. DANA,* 1854.
9. JOHN TORREY,* 1855.
10. JAMES HALL,* 1856.
11. ALEXIS CASWELL,* 1857, in place of J. W. BAILEY,* deceased. 1858, in the absence
12. of JEFFRIES WYMAN.*
13. STEPHEN ALEXANDER,* 1859.
14. ISAAC LEA,* 1860.
    (No meetings for 1861–65.)
15. F. A. P. BARNARD,* 1866.
16. J. S. NEWBERRY,* 1867.
17. B. A. GOULD,* 1868.
18. J. W. FOSTER,* 1869.
19. T. STERRY HUNT,* 1870, in the absence of WM. CHAUVENET.*
20. ASA GRAY,* 1871.
21. J. LAWRENCE SMITH,* 1872.
22. JOSEPH LOVERING,* 1873.
23. J. L. LECONTE,* 1874.
24. J. E. HILGARD,* 1875.
25. WILLIAM B. ROGERS,* 1876.
26. SIMON NEWCOMB,* 1877.
27. O. C. MARSH,* 1878.
28. G. F. BARKER,* 1879.
29. LEWIS H. MORGAN,* 1880.
30. G. J. BRUSH,* 1881.
31. J. W. DAWSON,* 1882.
32. C. A. YOUNG,* 1883.
33. J. P. LESLEY,* 1884.
34. H. A. NEWTON,* 1885.
35. EDWARD S. MORSE, 1886.
36. S. P. LANGLEY,* 1887.
37. J. W. POWELL,* 1888.
38. T. C. MENDENHALL, 1889.
39. G. LINCOLN GOODALE, 1890.
40. ALBERT B. PRESCOTT,* 1891.
41. JOSEPH LECONTE,* 1892.
42. WILLIAM HARKNESS,* 1893.
43. DANIEL G. BRINTON,* 1894.
44. E. W. MORLEY, 1895.
45. EDWARD D. COPE,* 1896. THEODORE GILL,* as senior vice-president acted after the death of Professor COPE.
46. WOLCOTT GIBBS,* 1897, absent. W. J. MCGEE,* Acting President.
47. F. W. PUTNAM, 1898.
48. EDWARD ORTON,* 1899. MARCUS BENJAMIN, as senior vice-president, acted until the election of GROVE K. GILBERT by the General Committee, December, 1899, to fill the vacancy caused by the death of Professor ORTON.

49. R. S. WOODWARD, 1900.
50. C. S. MINOT,* 1901.
51. ASAPH HALL,* 1902.
52. IRA REMSEN, 1902.
53. CARROLL D. WRIGHT,* 1903.
54. W. G. FARLOW, 1904.
55. C. M. WOODWARD,* 1905.
56. W. H. WELCH, 1906.
57. W. H. WELCH, 1906.
58. E. L. NICHOLS, 1907.
59. T. C. CHAMBERLIN, 1908.
60. T. C. CHAMBERLIN, 1908.
61. DAVID S. JORDAN, 1909.
62. A. A. MICHELSON, 1910.
63. CHARLES E. BESSEY,* 1911.
64. E. C. PICKERING, 1912.
65. E. B. WILSON, 1913.
66. CHARLES W. ELIOT, 1914.
67. W. W. CAMPBELL, 1915.
68. W. W. CAMPBELL, 1915.

VICE-PRESIDENTS.

There were no Vice-Presidents until the 11th meeting, when there was a single Vice-President for each meeting. At the 24th meeting, the Association met in Sections A and B, each presided over by a Vice-President. At the 31st meeting nine sections were organized, each with a Vice-President as its presiding officer. In 1886, Section G (Microscopy) was given up. In 1892, Section F was divided into F, Zoology; G, Botany.

1857–1874.

11. ALEXIS CASWELL,* 1857, acted as President.
12. JOHN E. HOLBROOK,* 1858, not present.
13. EDWARD HITCHCOCK,* 1859.
14. B. A. GOULD,* 1860.
15. B. A. GOULD,* 1866, in the absence of R. W. GIBBES.*
16. WOLCOTT GIBBS,* 1867.
17. CHAS. WHITTLESEY,* 1868.
18. OGDEN N. ROOD,* 1869.
19. T. STERRY HUNT,* 1870, acted as President.
20. G. F. BARKER,* 1871.
21. ALEX. WINCHELL,* 1872.
22. A. H. WORTHEN,* 1873, not present.
23. C. S. LYMAN,* 1874.

1875–1881.

Section A.—Mathematics, Physics, and Chemistry.

24. H. A. NEWTON,* 1875.
25. C. A. YOUNG,* 1876.
26. R. H. THURSTON,* 1877, in the absence of E. C. PICKERING.
27. R. H. THURSTON,* 1878.
28. S. P. LANGLEY,* 1879.
29. ASAPH HALL,* 1880.
30. WM. HARKNESS,* 1881, in the absence of A. M. MAYER.*

Section B.—Natural History.

24. J. W. DAWSON,* 1875.
25. EDWARD S. MORSE, 1876.
26. O. C. MARSH,* 1877.
27. AUG. R. GROTE,* 1878.
28. J. W. POWELL,* 1879.
29. ALEX. AGASSIZ,* 1880.
30. EDWARD T. COX,* 1881, in the absence of GEORGE ENGELMANN.*

CHAIRMEN OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. S. W. JOHNSON,* 1875.
25. G. F. BARKER,* 1876.
26. N. T. LUPTON,* 1877.
27. F. W. CLARKE, 1878.
28. F. W. CLARKE, 1879, in the absence of IRA REMSEN.
29. J. M. ORDWAY,* 1880.
30. G. C. CALDWELL,* 1881, in the absence of W. R. NICHOLS.*

Subsection of Microscopy.

25. R. H. WARD, 1876.
26. R. H. WARD, 1877.
27. R. H. WARD, 1878, in the absence of G. S. BLACKIE.*
28. E. W. MORLEY, 1879.
29. S. A. LATTIMORE,* 1880.
30. A. B. HERVEY, 1881.

Subsection of Anthropology.

24. LEWIS H. MORGAN,* 1875.
25. LEWIS H. MORGAN,* 1876.
26. DANIEL WILSON,* 1877, not present.
27. United with Section B.
28. DANIEL WILSON,* 1879.
29. J. W. POWELL,* 1880.
30. GARRICK MALLERY,* 1881.

Subsection of Entomology.

30. J. G. MORRIS,* 1881.

VICE-PRESIDENTS OF SECTIONS, 1882—

Section A.—Mathematics and Astromomy.

31. W. A. ROGERS,* 1882, in the absence of WM. HARKNESS.*
32. W. A. ROGERS,* 1883.
33. H. T. EDDY, 1884.
34. WM. HARKNESS,* 1885, in the absence of J. M. VAN VLECK.*
35. J. W. GIBBS,* 1886.
36. J. R. EASTMAN,* 1887, in place of W. FERREL,* resigned.
37. ORMOND STONE, 1888.
38. R. S. WOODWARD, 1889.
39. S. C. CHANDLER,* 1890.
40. E. W. HYDE, 1891.
41. J. R. EASTMAN,* 1892.
42. C. L. DOOLITTLE, 1893.
43. { G. C. COMSTOCK, 1894. / EDGAR FRISBY, 1894. }
44. EDGAR FRISBY, 1895, in place of E. S. HOLDEN,* resigned.
45. ALEX. MACFARLANE,* 1896, in place of WM. E. STORY, resigned.
46. W. W. BEMAN, 1897.
47. E. E. BARNARD, 1898.
48. ALEX. MACFARLANE,* 1899.
49. ASAPH HALL, JR., 1900.
50. JAMES MCMAHON, 1901.
51. G. W. HOUGH,* 1902.
52. GEORGE BRUCE HALSTED, 1902.
53. O. H. TITTMANN, 1903.
54. ALEXANDER ZIWET, 1904.
55. ALEXANDER ZIWET, 1905, in the absence of W. S. EICHELBERGER.
56. EDWARD KASNER, 1906.
57. EDWARD KASNER, 1906.
58. E. O. LOVETT, 1907.
59. C. J. KEYSER, 1908.
60. C. J. KEYSER, 1908.
61. E. W. BROWN, 1909.
62. E. H. MOORE, 1910.
63. EDWIN B. FROST, 1911.
64. E. B. VAN VLECK, 1912.
65. FRANK SCHLESINGER, 1913.
66. HENRY S. WHITE, 1914.
67. A. O. LEUSCHNER, 1915.
68. A. O. LEUSCHNER, 1915.

Section B.—Physics.

31. T. C. MENDENHALL, 1882.
32. H. A. ROWLAND,* 1883.
33. J. TROWBRIDGE, 1884.
34. S. P. LANGLEY,* 1885, in place of C. F. BRACKETT,* resigned.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

35. C. F. BRACKETT,* 1886.
36. W. A. ANTHONY,* 1887.
37. A. A. MICHELSON, 1888.
38. H. S. CARHART, 1889.
39. CLEVELAND ABBE, 1890.
40. F. E. NIPHER, 1891.
41. B. F. THOMAS,* 1892.
42. E. L. NICHOLS, 1893.
43. WM. A. ROGERS,* 1894.
44. W. LECONTE STEVENS, 1895.
45. CARL LEO MEES, 1896.
46. CARL BARUS, 1897.
47. F. P. WHITMAN, 1898.
48. ELIHU THOMSON, 1899.
49. ERNEST MERRITT, 1900.
50. D. B. BRACE,* 1901.
51. W. S. FRANKLIN, 1902.
52. ERNEST F. NICHOLS, 1902.
53. E. H. HALL, 1903.
54. WM. F. MAGIE, 1904.
55. HENRY CREW, 1905.
56. W. C. SABINE, 1906.
57. W. C. SABINE, 1906.
58. D. C. MILLER, 1907.
59. KARL E. GUTHE, 1908.
60. KARL E. GUTHE, 1908.
61. LOUIS A. BAUER, 1909.
62. EDWARD B. ROSA, 1910.
63. R. A. MILLIKAN, 1911.
64. A. G. WEBSTER, 1912.
65. ALFRED D. COLE, 1913.
66. ANTHONY ZELENY, 1914.
67. E. PERCIVAL LEWIS, 1915.
68. E. PERCIVAL LEWIS, 1915.

Section C.—Chemistry.

31. H. C. BOLTON,* 1882.
32. E. W. MORLEY, 1883.
33. J. W. LANGLEY, 1884.
34. N. T. LUPTON,* 1885, in the absence of W. R. NICHOLS.*
35. H. W. WILEY, 1886.
36. A. B. PRESCOTT,* 1887.
37. C. E. MUNROE, 1888.
38. W. L. DUDLEY,* 1889.
39. R. B. WARDER,* 1890.
40. R. C. KEDZIE,* 1891.
41. ALFRED SPRINGER, 1892.
42. EDWARD HART, 1893.
43. T. H. NORTON, 1894.
44. WM. MCMURTRIE,* 1895.
45. W. A. NOYES, 1896.
46. W. P. MASON, 1897.
47. EDGAR F. SMITH, 1898.
48. F. P. VENABLE, 1899.
49. JAS. LEWIS HOWE, 1900.
50. JOHN H. LONG, 1901.
51. H. A. WEBER,* 1902.
52. CHARLES BASKERVILLE, 1902.
53. W. D. BANCROFT, 1903.
54. L. P. KINNICUTT,* 1904.
55. L. P. KINNICUTT,* 1905, in the absence of C. F. MABERY.
56. CLIFFORD RICHARDSON, 1906.
57. CLIFFORD RICHARDSON, 1906.
58. H. P. TALBOT, 1907.
59. LOUIS KAHLENBERG, 1908.
60. LOUIS KAHLENBERG, 1908.
61. WM. MCPHERSON, 1909.
62. G. B. FRANKFORTER, 1910.
63. FRANK K. CAMERON, 1911.
64. W. LASH MILLER, 1912.
65. C. L. ALSBERG, 1913.
66. EDGAR F. SMITH, 1914.
67. WILLIAM MCPHERSON, 1915.
68. WILLIAM MCPHERSON, 1915.

Section D.—Engineering.

31 W P. TROWBRIDGE,* 1882.
32. DEVOLSON WOOD, 1883, absent, but place was not filled.
33. R. H. THURSTON,* 1884.
34. J. BURKITT WEBB, 1885.
35. O. CHANUTE,* 1886.
36. E. B. COXE, 1887.
37. C. J. H. WOODBURY, 1888.
38. JAMES E. DENTON, 1889.
39. JAMES E. DENTON, 1890, in place of A. BEARDSLEY, absent.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

40. THOMAS GRAY,* 1891.
41. J. B. JOHNSON,* 1892.
42. S. W. ROBINSON,* 1893.
43. MANSFIELD MERRIMAN, 1894.
44. WILLIAM KENT, 1895.
45. FRANK O. MARVIN, 1896.
46. JOHN GALBRAITH, 1897.
47. JOHN GALBRAITH, 1898, in the absence of M. E. COOLEY.
48. STORM BULL,* 1899.
49. JOHN A. BRASHEAR, 1900.
50. H. S. JACOBY, 1901.
51. J. J. FLATHER, 1902.
52. CLARENCE A. WALDO, 1902.
53. C. M. WOODWARD,* 1903.
54. C. M. WOODWARD,* 1904, in the absence of D. S. JACOBUS.
55. F. W. MCNAIR, 1905.
56. W. R. WARNER, 1906.
57. W. R. WARNER, 1906.
58. O. H. LANDRETH, 1907.
59. GEORGE F. SWAIN, 1908.
60. GEORGE F. SWAIN, 1908.
61. JOHN F. HAYFORD, 1909.
62. A. LAWRENCE ROTCH,* 1910.
63. CHARLES S. HOWE, 1911.
64. JOSEPH A. HOLMES, 1912.
65. OZNI P. HOOD, 1913.
66. F. W. TAYLOR,* in place of ALFRED NOBLE, deceased, 1914.
67. BION J. ARNOLD, 1915.
68. BION J. ARNOLD, 1915.

Section E.—Geology and Geography.

31. E. T. COX,* 1882.
32. C. H. HITCHCOCK, 1883.
33. N. H. WINCHELL,* 1884.
34. EDWARD ORTON,* 1885.
35. T. C. CHAMBERLIN, 1886.
36. G. K. GILBERT, 1887.
37. GEORGE H. COOK,* 1888.
38. CHARLES A. WHITE,* 1889.
39. JOHN C. BRANNER, 1890.
40. J. J. STEVENSON, 1891.
41. H. S. WILLIAMS, 1892.
42. CHARLES D. WALCOTT, 1893.
43. SAMUEL CALVIN,* 1894.
44. JED HOTCHKISS,* 1895.
45. B. K. EMERSON, 1896.
46. { I. C. WHITE, 1897. / E. W. CLAYPOLE,* 1897.
47. H. L. FAIRCHILD, 1898.
48. J. F. WHITEAVES,* 1899.
49. J. F. KEMP, 1900.
50. C. R. VAN HISE, 1901.
51. JOSEPH A. HOLMES, 1902, in the absence of O. A. DERBY.
52. WM. M. DAVIS, 1902.
53. I. C. RUSSELL,* 1903.
54. EUGENE A. SMITH, 1904.
55. WM. NORTH RICE, 1905.
56. A. C. LANE, 1906.
57. A. C. LANE, 1906.
58. J. P. IDDINGS, 1907.
59. BAILEY WILLIS, 1908.
60. BAILEY WILLIS, 1908.
61. REGINALD W. BROCK, 1909.
62. CHRISTOPHER W. HALL,* 1910.
63. BOHUMIL SHIMEK, 1911.
64. JAMES E. TODD, 1912.
65. JOSEPH S. DILLER, 1913.
66. U. S. GRANT, 1914.
67. CHARLES S. PROSSER, 1915.
68. CHARLES S. PROSSER, 1915.

Section F.—Biology, 1882–1892.

31. W. H. DALL, 1882.
32. W. J. BEAL, 1883.
33. E. D. COPE,* 1884.
34. T. J. BURRILL, 1885, in the absence of B. G. WILDER.
35. H. P. BOWDITCH, 1886.
36. W. G. FARLOW, 1887.
37. C. V. RILEY,* 1888.
38. GEORGE L. GOODALE, 1889.
39. C. S. MINOT,* 1890.
40. J. M. COULTER, 1891.
41. S. H. GAGE, 1892.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

Section F.—Zoology.

42. HENRY F. OSBORN, 1893.
43. J. A. LINTNER,* 1894, in place of S. H. SCUDDER,* resigned.
44. L. O. HOWARD, 1895, in place of D. S. JORDAN, resigned.
45. THEO. GILL,* 1896.
46. L. O. HOWARD, 1897, in place of G. BROWN GOODE,* deceased.
47. A. S. PACKARD,* 1898.
48. S. H. GAGE, 1899.
49. C. B. DAVENPORT, 1900.
50. D. S. JORDAN, 1901.
51. E. L. MARK, 1902, in the absence of C. C. NUTTING.
52. C. W. HARGITT, 1902.
53. E. L. MARK, 1903.
54. C. HART MERRIAM, 1904.
55. H. B. WARD, 1905.
56. E. G. CONKLIN, 1906.
57. E. G. CONKLIN, 1906.
58. E. B. WILSON, 1907.
59. C. J. HERRICK, 1908.
60. C. J. HERRICK, 1908.
61. W. E. RITTER, 1909.
62. JACOB REIGHARD, 1910.
63. H. F. NACHTRIEB, 1911.
64. WILLIAM A. LOCY, 1912.
65. ALFRED G. MAYER, 1913.
66. FRANK R. LILLIE, 1914.
67. VERNON L. KELLOGG, 1915.
68. VERNON L. KELLOGG, 1915.

Section G.—Microscopy, 1882–85.

31. A. H. TUTTLE, 1882.
32. J. D. COX,* 1883.
33. T. G. WORMLEY,* 1884.
34. S. H. GAGE, 1885.
(Section united with F in 1886.)

Section G.—Botany.

42. CHARLES E. BESSEY,* 1893.
43. {L. M. UNDERWOOD,* 1894.
{C. E. BESSEY,* 1894.
44. J. C. ARTHUR, 1895.
45. N. L. BRITTON, 1896.
46. G. F. ATKINSON, 1897.
47. W. G. FARLOW, 1898.
48. C. R. BARNES,* 1899.
49. W. TRELEASE, 1900.
50. B. T. GALLOWAY, 1901.
51. C. E. BESSEY,* 1902, in the absence of D. H. CAMPBELL.
52. F. V. COVILLE, 1902.
53. T. H. MACBRIDE, 1903.
54. B. L. ROBINSON, 1904.
55. B. L. ROBINSON, 1905, in the absence of ERWIN F. SMITH.
56. D. T. MACDOUGAL, 1906.
57. D. T. MACDOUGAL, 1906.
58. C. E. BESSEY,* 1907.
59. H. M. RICHARDS, 1908.
60. H. M. RICHARDS, 1908.
61. D. P. PENHALLOW,* 1909.
62. ROBERT A. HARPER, 1910.
63. F. C. NEWCOMBE, 1911.
64. DUNCAN S. JOHNSON, 1912.
65. HENRY C. COWLES, 1913.
66. GEORGE P. CLINTON, 1914.
67. WM. A. SETCHELL, 1915.
68. WM. A. SETCHELL, 1915.

Section H.—Anthropology and Psychology.

31. ALEX. WINCHELL,* 1882.
32. OTIS T. MASON,* 1883.
33. EDWARD S. MORSE, 1884.
34. J. OWEN DORSEY,* 1885, in the absence of W. H. DALL.
35. HORATIO HALE,* 1886.
36. D. G. BRINTON,* 1887.
37. CHARLES C. ABBOTT, 1888.
38. GARRICK MALLERY,* 1889.
39. FRANK BAKER, 1890.
40. JOSEPH JASTROW, 1891.
41. W. H. HOLMES, 1892.
42. J. OWEN DORSEY,* 1893.
43. FRANZ BOAS, 1894.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

44. F. H. CUSHING,* 1895.
45. ALICE C. FLETCHER, 1896.
46. W. J. MCGEE,* 1897.
47. J. MCK. CATTELL, 1898.
48. THOMAS WILSON,* 1899.
49. A. W. BUTLER, 1900.
50. J. WALTER FEWKES, 1901.
51. STEWART CULIN, 1902.
52. GEO. A. DORSEY, 1902.
53. M. H. SAVILLE, 1903.
54. WALTER HOUGH, 1904.
55. GEORGE GRANT MACCURDY, 1905.
56. HUGO MUNSTERBERG, 1906.
57. A. L. KROEBER, 1906.
58. FRANZ BOAS, 1907.
59. R. S. WOODWORTH, 1908.
60. R. S. WOODWORTH, 1908.
61. WM. H. HOLMES, 1909.
62. ROLAND B. DIXON, 1910.
63. GEORGE T. LADD, 1911.
64. J. WALTER FEWKES, 1912.
65. WALTER B. PILLSBURY, 1913.
66. CLARK WISSLER, 1914.
67. LILLIEN J. MARTIN, 1915.
68. LILLIEN J. MARTIN, 1915.

Section I.—Social and Economic Science.

31. E. B. ELLIOTT,* 1882.
32. FRANKLIN B. HOUGH,* 1883.
33. JOHN EATON,* 1884.
34. EDWARD ATKINSON,* 1885.
35. JOSEPH CUMMINGS,* 1886.
36. H. E. ALVORD,* 1887.
37. CHARLES W. SMILEY, 1888.
38. CHARLES S. HILL, 1889.
39. J. RICHARDS DODGE,* 1890.
40. EDMUND J. JAMES, 1891.
41. L. F. WARD,* 1892, in place of S. D. HORTON,* resigned.
42. WILLIAM H. BREWER,* 1893.
43. HENRY FARQUHAR, 1894.
44. B. E. FERNOW, 1895.
45. W. R. LAZENBY, 1896.
46. R. T. COLBURN,* 1897.
47. ARCHIBALD BLUE,* 1898.
48. MARCUS BENJAMIN, 1899.
49. MARCUS BENJAMIN, 1900, in the absence of C. M. WOODWARD.*
50. JOHN HYDE, 1901.
51. JOHN HYDE, 1902, in the absence of CARROLL D. WRIGHT.*
52. H. T. NEWCOMB, 1902.
53. SIMEON E. BALDWIN, 1903.
54. MARTIN A. KNAPP, 1904.
55. IRVING FISHER, 1905.
56. CHAS. A. CONANT, 1906.
57. CHAS. A. CONANT, 1906.
58. JOHN FRANKLIN CROWELL, 1907.
59. WILLIAM GRAHAM SUMNER,* 1908.
60. WILLIAM GRAHAM SUMNER,* 1908.
61. BYRON W. HOLT, 1909, in place of CARROLL D. WRIGHT, * deceased.
62. THEODORE E. BURTON, 1910.
63. J. PEASE NORTON, 1911.
64. JOHN HAYS HAMMOND, 1912.
65. JUDSON G. WALL, 1913.
66. E. E. RITTENHOUSE, 1914.
67. GEORGE F. KUNZ, 1915.
68. GEORGE F. KUNZ, 1915.

Section K.—Physiology and Experimental Medicine.

51. W. H. WELCH, 1902.
52. W. H. WELCH, 1902.
53. H. P. BOWDITCH, 1903.
54. H. P. BOWDITCH, 1904.
55. ALEXANDER C. ABBOTT, 1905, in the absence of W. T. SEDGWICK.
56. SIMON FLEXNER, 1906.
57. SIMON FLEXNER, 1906.
58. LUDVIG HEKTOEN, 1907.
59. WILLIAM H. HOWELL, 1908.
60. WILLIAM H. HOWELL, 1908.
61. CHARLES S. MINOT,* 1909.
62. FREDERICK G. NOVY, 1910.

VICE-PRESIDENTS OF SECTIONS, CONTINUED.

63. WILLIAM T. PORTER, 1911.
64. J. J. R. MACLEOD, 1912.
65. THEODORE HOUGH, 1913.
66. RICHARD M. PEARCE, 1914.
67. FREDERICK P. GAY, 1915.
68. FREDERICK P. GAY, 1915.

Section L.—Education.

58. ELMER ELLSWORTH BROWN, 1907.
59. JOHN DEWEY, 1908.
60. JOHN DEWEY, 1908.
61. JAMES E. RUSSELL, 1909.
62. A. ROSS HILL, 1910.
63. E. L. THORNDIKE, 1911.
64. J. MCKEEN CATTELL, 1912.
65. P. P. CLAXTON, 1913.
66. PAUL H. HANUS, 1914.
67. E. P. CUBBERLEY, 1915.
68. E. P. CUBBERLEY, 1915.

Section M.—Agriculture.

66. L. H. BAILEY, 1914.
67. EUGENE DAVENPORT, 1915.
68. EUGENE DAVENPORT, 1915.

SECRETARIES.

General Secretaries, 1848–

1. WALTER R. JOHNSON,* 1848.
2. E. N. HORSFORD,* 1849, in the absence of JEFFRIES WYMAN.*
3. L. R. GIBBS,* 1850, in the absence of E. C. HERRICK.*
4. E. C. HERRICK,* 1850.
5. WM. B. ROGERS,* 1851, in the absence of E. C. HERRICK.*
6. WM. B. ROGERS,* 1851.
7. S. ST. JOHN,* 1853, in the absence of J. D. DANA.*
8. J. LAWRENCE SMITH,* 1854.
9. WOLCOTT GIBBS,* 1855.
10. B. A. GOULD,* 1856.
11. JOHN L. LECONTE,* 1857.
12. W. M. GILLESPIE,* 1858, in the absence of WM. CHAUVENET.*
13. WM. CHAUVENET,* 1859.
14. JOSEPH LECONTE,* 1860.
15. ELIAS LOOMIS,* 1866, in the absence of W. P. TROWBRIDGE.*
16. C. S. LYMAN,* 1867.
17. SIMON NEWCOMB,* 1868, in the absence of A. P. ROCKWELL.*
18. O. C. MARSH,* 1869.
19. F. W. PUTNAM, 1870, in the absence of C. F. HARTT.*
20. F. W. PUTNAM, 1871.
21. EDWARD S. MORSE, 1872.
22. C. A. WHITE,* 1873.
23. A. C. HAMLIN, 1874.
24. S. H. SCUDDER,* 1875.
25. T. C. MENDENHALL, 1876.
26. AUG. R. GROTE,* 1877.
27. H. C. BOLTON,* 1878.
28. H. C. BOLTON,* 1879, in the absence of GEORGE LITTLE.
29. J. K. REES,* 1880.
30. C. V. RILEY,* 1881.
31. WILLIAM SAUNDERS,* 1882.
32. J. R. EASTMAN,* 1883.
33. ALFRED SPRINGER, 1884.
34. C. S. MINOT,* 1885.
35. S. G. WILLIAMS,* 1886.
36. WILLIAM H. PETTEE,* 1887.
37. JULIUS POHLMAN, 1888.
38. C. LEO MEES, 1889.
39. H. C. BOLTON,* 1890.
40. H. W. WILEY, 1891.
41. A. W. BUTLER, 1892.
42. T. H. NORTON, 1893.
43. H. L. FAIRCHILD, 1894.
44. JAS. LEWIS HOWE, 1895.
45. CHARLES R. BARNES,* 1896.
46. ASAPH HALL, JR., 1897.
47. J. MCMAHON, 1898, in place of D. S. KELLICOTT,* deceased.
48. FREDERICK BEDELL, 1899.

SECRETARIES, CONTINUED.

49. CHAS. BASKERVILLE, 1900.
50. JOHN M. COULTER, 1901, in the absence of WILLIAM HALLOCK.*
51. D. T. MACDOUGAL, 1902.
52. HENRY B. WARD, 1902.
53. CH. WARDELL STILES, 1903.
54. CHARLES S. HOWE, 1904.
55. C. A. WALDO, 1905.
56. JOHN F. HAYFORD, 1906.
57. JOHN F. HAYFORD, 1906.
58. F. W. MCNAIR, 1907.
59. J. PAUL GOODE, 1908.
60. J. PAUL GOODE, 1908.
61. DAYTON C. MILLER, 1909.
62. F. E. CLEMENTS, 1910.
63. JOHN ZELENY, 1911.
64. HENRY E. SUMMERS, 1912.
65. H. W. SPRINGSTEEN, 1913.
66. WM. A. WORSHAM, JR., 1914.
67. HENRY SKINNER, 1915.
68. HENRY SKINNER, 1915.

Permanent Secretaries, 1851–

5–7. SPENCER F. BAIRD,* 1851–4.
8–17. JOSEPH LOVERING,* 1854–68.
18. F. W. PUTNAM, 1869, in the absence of J. LOVERING.*
19–21. JOSEPH LOVERING,* 1870–73.
22–46. F. W. PUTNAM, 1873–98.
47–73. L. O. HOWARD, 1898–1920.

Assistant General Secretaries, 1882–1887.

31. J. R. EASTMAN,* 1882.
32. ALFRED SPRINGER, 1883.
33. C. S. MINOT,* 1884, in the absence of E. S. HOLDEN.*
34. S. G. WILLIAMS,* 1885, in the absence of C. C. ABBOTT.
35. W. H. PETTEE,* 1886.
36. J. C. ARTHUR, 1887.

Secretaries of the Council, 1888–

37. C. LEO MEES, 1888.
38. H. C. BOLTON,* 1889.
39. H. W. WILEY, 1890.
40. A. W. BUTLER, 1891.
41. T. H. NORTON, 1892.
42. H. LEROY FAIRCHILD, 1893.
43. JAS. LEWIS HOWE, 1894.
44. CHARLES R. BARNES,* 1895.
45. ASAPH HALL, JR., 1896.
46. D. S. KELLICOTT,* 1897.
47. FREDERICK BEDELL, 1898.
48. CHARLES BASKERVILLE, 1899.
49. WILLIAM HALLOCK,* 1900.
50. D. T. MACDOUGAL, 1901.
51. H. B. WARD, 1902.
52. CH. WARDELL STILES, 1902.
53. CHAS. S. HOWE, 1903.
54. C. A. WALDO, 1904.
55. JOHN F. HAYFORD, 1905.
56. F. W. MCNAIR, 1906.
57. F. W. MCNAIR, 1906.
58. J. PAUL GOODE, 1907, in place of WILLIAM HARPER DAVIS.
59. DAYTON C. MILLER, 1908.
60. DAYTON C. MILLER, 1908.
61. FRANCIS G. BENEDICT, 1909.
62. JOHN ZELENY, 1910.
63. HENRY E. SUMMERS, in absence of T. S. PALMER, 1911.
64. H. W. SPRINGSTEEN, 1912.
65. WM. A. WORSHAM, JR., 1913.
66. HENRY SKINNER, 1914.
67. WM. E. HENDERSON, 1915.
68. WM. E. HENDERSON, 1915.

Secretaries of Section A.—Mathematics, Physics and Chemistry, 1875–1881.

24. S. P. LANGLEY,* 1875.
T. C. MENDENHALL, 1875.

SECRETARIES, CONTINUED.

25. A. W. WRIGHT, 1876.
26. H. C. BOLTON,* 1877.
27. F. E. NIPHER, 1878.
28. J. K. REES,* 1879.
29. H. B. MASON, 1880.
30. E. T. TAPPAN, 1881, in the absence of JOHN TROWBRIDGE.

Secretaries of Section B.—Natural History, 1874–1881.

24. EDWARD S. MORSE, 1875.
25. ALBERT H. TUTTLE, 1876.
26. WILLIAM H. DALL, 1877.
27. GEORGE LITTLE, 1878.
28. WM. H. DALL, 1879, in the absence of A. C. WETHERBY.
29. CHARLES V. RILEY,* 1880.
30. WILLIAM SAUNDERS,* 1881.

SECRETARIES OF SUBSECTIONS, 1875–1881.

Subsection of Chemistry.

24. F. W. CLARKE, 1875.
25. H. C. BOLTON,* 1876.
26. P. SCHWEITZER,* 1877.
27. A. P. S. STUART,* 1878.
28. W. R. NICHOLS,* 1879.
29. C. E. MUNROE, 1880.
30. ALFRED SPRINGER, 1881, in the absence of R. B. WARDER.*

Subsection of Entomology.

30. B. PICKMAN MANN, 1881.

Subsection of Anthropology.

24. F. W. PUTNAM, 1875.
25. OTIS T. MASON,* 1876.
26–27. United with Section B.
28–30. J. G. HENDERSON, 1879–81.

Subsection of Microscopy.

25. E. W. MORLEY, 1876.
26. T. O. SOMMERS, JR., 1877.
27. G. J. ENGLEMANN,* 1878.
28–29. A. B. HERVEY, 1879–80.
30. W. H. SEAMAN,* 1881, in the absence of S. P. SHARPLES.

SECRETARIES OF THE SECTIONS, 1882—.

Section A.—Mathematics and Astronomy.

31. H. T. EDDY, 1882.
32. G. W. HOUGH,* 1883, in the absence of W. W. JOHNSON.
33. G. W. HOUGH,* 1884.
34. E. W. HYDE, 1885.
35. S. C. CHANDLER,* 1886.
36. H. M. PAUL, 1887.
37. C. L. DOOLITTLE, 1888.
38. G. C. COMSTOCK, 1889.
39. W. W. BEMAN, 1890.
40. F. H. BIGELOW, 1891.
41. WINSLOW UPTON, 1892.
42. C. A. WALDO, 1893, in the absence of A. W. PHILLIPS.
43. J. E. KERSHNER, 1894, in place of W. W. BEMAN, resigned.
44. ASAPH HALL, JR., 1895, in place of E. H. MOORE, resigned.
45. EDWIN B. FROST, 1896.
46. JAMES MCMAHON, 1897.
47. WINSLOW UPTON, 1898, in place of ALEX. ZIWET, resigned.
48. JOHN F. HAYFORD, 1899.
49. W. M. STRONG, 1900.
50. G. A. MILLER, 1901, in place of H. C. LORD, resigned.
51. E. S. CRAWLEY, 1902.
52. C. S. HOWE, 1902.

SECRETARIES OF THE SECTIONS, CONTINUED.

53–57. L. G. WELD, 1903–1906.
58–64. GEORGE A. MILLER, 1907–1912.
65–70. F. R. MOULTON, 1913–1917.

Section B.—Physics.

31. C. S. HASTINGS, 1882.
32. F. E. NIPHER, 1883, in the absence of C. K. WEAD.
33. N. D. C. HODGES, 1884.
34. B. F. THOMAS,* 1885, in place of A. A. MICHELSON, resigned.
35. H. S. CARHART, 1886.
36. C. LEO MEES, 1887.
37. ALEX. MACFARLANE,* 1888.
38. E. L. NICHOLS, 1889.
39. E. M. AVERY,* 1890.
40. ALEX. MACFARLANE,* 1891.
41. BROWN AYRES, 1892.
42. W. LECONTE STEVENS, 1893.
43. B. W. SNOW, 1894.
44. ERNEST MERRITT, 1895.
45. FRANK P. WHITMAN, 1896.
46. FREDERICK BEDELL, 1897.
47. W. S. FRANKLIN, 1898, in place of E. B. ROSA, resigned.
48. WILLIAM HALLOCK,* 1899.
49. R. A. FESSENDEN, 1900.
50. JOHN ZELENY, 1901, in place of J. O. REED, resigned.
51. E. F. NICHOLS, 1902.
52. D. C. MILLER, 1902.
53–57. D. C. MILLER, 1903–1906.
58–63. A. D. COLE, 1907–1911.
64–69. W. J. HUMPHREYS, 1912–1916.

Section C.—Chemistry.

31. ALFRED SPRINGER, 1882.
32. { J. W. LANGLEY, 1883.
{ W. MCMURTRIE,* 1883.
33. H. CARMICHAEL, 1884, in the absence of R. B. WARDER.*
34. F. P. DUNNINGTON, 1885.
35. W. MCMURTRIE,* 1886.
36. C. F. MABERY, 1887.
37. W. L. DUDLEY,* 1888.
38. EDWARD HART, 1889.
39. W. A. NOYES, 1890.
40. T. H. NORTON, 1891.
41. JAS. LEWIS HOWE, 1892.
42. H. N. STOKES, 1893, in the absence of J. U. NEF.
43. MORRIS LOEB,* 1894, in place of S. M. BABCOCK, resigned.
44. { W. P. MASON, 1895.
{ W. O. ATWATER,* 1895.
45. FRANK P. VENABLE, 1896.
46. P. C. FREER,* 1897.
47. C. BASKERVILLE, 1898.
48. H. A. WEBER,* 1899.
49. A. A. NOYES, 1900.
50. W. MCPHERSON, 1901.
51. F. C. PHILLIPS, 1902.
52. H. N. STOKES, 1902.
53–58. CHAS. L. PARSONS, 1903–07.
59–64. CHARLES H. HERTY, 1908–1912.
65–70. JOHN JOHNSTON, 1913–1917.

Section D.—Engineering.

31. J. BURKITT WEBB, 1882, in the absence of C. B. DUDLEY*.
32. J. BURKITT WEBB, 1883, *pro tempore.*
33. J. BURKITT WEBB, 1884.
34. C. J. H. WOODBURY, 1885.
35. WILLIAM KENT, 1886.
36. G. M. BOND, 1887.
37. ARTHUR BEARDSLEY, 1888.
38. W. R. WARNER, 1889.
39. THOMAS GRAY,* 1890.
40. WILLIAM KENT, 1891.
41. O. H. LANDRETH, 1892.
42. D. S. JACOBUS, 1893.
43. JOHN H. KINEALY, 1894.

SECRETARIES OF THE SECTIONS, CONTINUED.

44. H. S. JACOBY, 1895.
45. JOHN GALBRAITH, 1896.
46. JOHN J. FLATHER, 1897.
47. JOHN J. FLATHER, 1898, in the absence of W. S. ALDRICH.
48. J. M. PORTER, 1899.
49. W. T. MAGRUDER, 1900.
50. C. W. COMSTOCK, 1901, in the absence of W. H. JAQUES.
51. C. A. WALDO, 1902.
52. ELWOOD MEAD, 1902, in the absence of ALBERT KINGSBURY.
53–58. W. T. MAGRUDER, 1903–1907.
59–64. GEORGE W. BISSELL, 1908–1912.
65–70. A. H. BLANCHARD, 1913–1917.

Section E.—Geology and Geography.

31. H. S. WILLIAMS, 1882, in the absence of C. E. DUTTON.*
32. A. A. JULIEN, 1883.
33. E. A. SMITH, 1884.
34. G. K. GILBERT, 1885, in the absence of H. C. LEWIS.*
35. E. W. CLAYPOLE,* 1886.
36. W. M. DAVIS, 1887, in the absence of T. B. COMSTOCK.
37. JOHN C. BRANNER, 1888.
38. JOHN C. BRANNER, 1889.
39. SAMUEL CALVIN,* 1890.
40. W. J. MCGEE,* 1891.
41. R. D. SALISBURY, 1892.
42. W. H. HOBBS, 1893, in place of R. T. HILL, resigned.
43. JED. HOTCHKISS,* 1894, in place of W. M. DAVIS, resigned.
44. J. PERRIN SMITH, 1895.
45. W. N. RICE, 1896, in place of A. C. GILL, resigned.
46. C. H. SMYTH, JR., 1897.
47. WARREN UPHAM, 1898.
48. ARTHUR HOLLICK, 1899.
49. J. A. HOLMES, 1900.
50. H. B. PATTON, 1901, in the absence of R. A. F. PENROSE.
51. F. P. GULLIVER, 1902.
52. E. O. HOVEY, 1902.
53. E. O. HOVEY, 1903, in absence of G. B. SHATTUCK.
54–57. EDMUND O. HOVEY, 1904–1906.
58–61. F. P. GULLIVER, 1907–1909.
62. F. F. GROUT, in absence of F. P. GULLIVER, 1910.
63. F. P. GULLIVER, 1911.
64–69. GEORGE F. KAY, 1912–1916.

Section F.—Biology, 1882–92.

31. WILLIAM OSLER, 1882, in the absence of C. S. MINOT.*
32. S. A. FORBES, 1883.
33. C. E. BESSEY,* 1884.
34. J. A. LINTNER,* 1885, in place of C. H. FERNALD, resigned.
35. J. C. ARTHUR, 1886.
36. J. H. COMSTOCK, 1887.
37. B. E. FERNOW, 1888.
38. A. W. BUTLER, 1889.
39. J. M. COULTER, 1890.
40. A. J. COOK, 1891.
41. B. D. HALSTED, 1892.

Section F.—Zoology.

42. L. O. HOWARD, 1893.
43. JOHN B. SMITH,* 1894, in place of WM. LIBBEY, resigned.
44. C. W. HARGITT, 1895, in place of S. A. FORBES, resigned.
45. D. S. KELLICOTT,* 1896.
46. C. C. NUTTING, 1897.
47. R. T. JACKSON, 1898, in place of C. W. STILES, resigned.
48. C. L. MARLATT, 1899, in place of F. W. TRUE,* resigned.
49. C. H. EIGENMANN, 1900.
50. H. B. WARD, 1901.
51. CH. WARDELL STILES, 1902.

SECRETARIES OF THE SECTIONS, CONTINUED.

52. C. J. HERRICK, 1902.
53–58. C. J. HERRICK, 1903–07.
59–64. MAURICE A. BIGELOW, 1908–1912.
65–70. HERBERT V. NEAL, 1913–1917.

Section G.—Microscopy, 1882–85.

31. ROBERT BROWN, JR., 1882.
32. CARL SEILER, 1883.
33. ROMYN HITCHCOCK, 1884.
34. W. H. WALMSLEY, 1885.

Section G.—Botany.

42. B. T. GALLOWAY, 1893, in the absence of F. V. COVILLE.
43. CHAS. R. BARNES,* 1894.
44. {B. T. GALLOWAY, 1895. M. B. WAITE, 1895.
45. GEORGE F. ATKINSON, 1896.
46. F. C. NEWCOMBE, 1897.
47. ERWIN F. SMITH, 1898.
48. W. A. KELLERMAN,* 1899.
49. D. T. MACDOUGAL, 1900.
50. ERNST A. BESSEY, 1901, in the absence of A. S. HITCHCOCK.
51. H. VON SCHRENK, 1902.
52. C. J. CHAMBERLAIN, 1902.
53–55. F. E. LLOYD, 1903–1905.
56. G. F. ATKINSON, 1906, in the absence of F. E. LLOYD.
57. TRACY E. HAZEN, 1906, in the absence of F E. LLOYD.
58. HENRY C. COWLES, 1907, in the absence of F. E. LLOYD.
59–61. HENRY C. COWLES, 1908–1909.
62. WM. CROCKER, in absence of H. C. COWLES, 1910.
63–64. HENRY C. COWLES, 1911–1912.
65–70. W. J. V. OSTERHOUT, 1913–1917.

Section H.—Anthropology and Psychology.

31. OTIS T. MASON,* 1882.
32. G. H. PERKINS, 1883.
33. G. H. PERKINS, 1884, in the absence of W. H. HOLMES.
34. ERMINNIE A. SMITH,* 1885.
35. A. W. BUTLER, 1886.
36. CHAS. C. ABBOTT, 1887, in the absence of F. W. LANGDON.
37. FRANK BAKER, 1888.
38. W. M. BEAUCHAMP, 1889.
39. JOSEPH JASTROW, 1890.
40. W. H. HOLMES, 1891.
41. W. M. BEAUCHAMP, 1892, in place of STEWART CULIN, resigned.
42. W. M. MOOREHEAD, 1893.
43. A. F. CHAMBERLAIN,* 1894.
44. {STEWART CULIN and W. W. TOOKER, 1895, in place of ANITA N. MCGEE, res'd.
45. G. H. PERKINS, 1896, in place of J. G. BOURKE,* deceased.
46. ANITA N. MCGEE, 1897, in place of HARLAN I. SMITH, resigned.
47. MARSHALL H. SAVILLE, 1898.
48. E. W. SCRIPTURE, 1899, in place of GEO. A. DORSEY, resigned.
49. FRANK RUSSELL,* 1900.
50. G. G. MACCURDY. 1901.
51. HARLAN I. SMITH, 1902.
52. R. B. DIXON, 1902.
53–60. GEO. H. PEPPER, 1903–08.
61–64. GEO. G. MACCURDY, 1909–1912.
65. E. K. STRONG, JR., in absence of G. G. MACCURDY, 1913.
66. R. H. LOWIE, in absence of G. G. MACCURDY, 1914.
67–70. GEORGE G. MACCURDY, 1915–1917.

SECRETARIES OF THE SECTIONS, CONTINUED

Section I.—Social and Economic Science.

31. { FRANKLIN B. HOUGH,* 1882.
{ J. RICHARDS DODGE,* 1882.
32. JOSEPH CUMMINGS,* 1883.
33. CHARLES W. SMILEY, 1884.
34. CHAS. W. SMILEY, 1885, in the absence of J. W. CHICKERING.*
35. H. E. ALVORD,* 1886.
36. W. R. LAZENBY, 1887.
37. CHARLES S. HILL, 1888.
38. J. RICHARDS DODGE,* 1889.
39. B. E. FERNOW, 1890.
40. B. E. FERNOW, 1891.
41. HENRY FARQUHAR, 1892, in place of L. F. WARD,* made Vice-President.
42. NELLIE S. KEDZIE, 1893.
43. MANLEY MILES,* 1894.
44. W. R. LAZENBY, 1895, in place of E. A. ROSS, resigned.
45. R. T. COLBURN,* 1896.
46. ARCHIBALD BLUE,* 1897.
47. MARCUS BENJAMIN, 1898.
48. CALVIN M. WOODWARD,* 1899.
49. H. T. NEWCOMB, 1900.
50. R. A. PEARSON, 1901, in place of CORA A. BENNESON, resigned.
51. F. R. RUTTER, 1902, in place of WALTER F. WILLCOX, resigned.
52. F. H. HITCHCOCK, 1902.
53–57. J. F. CROWELL, 1903–1906.
58–60. J. PEASE NORTON, 1907–1908.
61. JNO. F. CROWELL, 1909, in place of J. P. NORTON, resigned.
62. FRED. C. CROXTON, 1910.
63–68. SEYMOUR C. LOOMIS, 1911–1915.

Section K.—Physiology and Experimental Medicine.

51. F. S. LEE, 1902.
52. F. S. LEE, 1903.
53. F. S. LEE, 1904.
54–60. W. J. GIES, 1904–1908.
61–63. GEORGE T. KEMP, 1909–1911.
64. J. J. R. MACLEOD, 1912, in place of WALDEMAR KOCH, deceased.
65. DONALD R. HOOKER, 1913.
66–69. C. E. A. WINSLOW, in place of D. R. HOOKER, resigned, 1914–1916.

Section L.—Education.

58. E. L. THORNDIKE, 1907, pro tem.
59–64. C. RIBORG MANN, 1908–1912.
65–70. S. A. COURTIS, 1913–1917.

Section M.—Agriculture.

66–71. EDWIN W. ALLEN, 1914–1918.

TREASURERS.

1. JEFFRIES WYMAN,* 1848.
2. A. L. ELWYN,* 1849.
3. ST. J. RAVENEL,* 1850, in the absence of A. L. ELWYN.*
4. A. L. ELWYN,* 1850.
5 SPENCER F. BAIRD,* 1851, in the absence of A. L. ELWYN.*
6–7. A. L. ELWYN,* 1851–53.
8. J. L. LECONTE,* 1854, in the absence of A. L. ELWYN,*
9–19. A. L. ELWYN,* 1855–1870.
20–30. WM. S. VAUX,* 1871–1881.
32–42. WM. LILLY,* 1882–1893.
43–49. R. S. WOODWARD, 1894–1900.
50–54. R. S. WOODWARD, 1901–1905.
55–61. R. S. WOODWARD, 1906–1909.
62–68. R. S. WOODWARD, 1910–1915.

Commonwealth of Massachusetts.

In the Year One Thousand Eight Hundred and Seventy-Four.

AN ACT

TO INCORPORATE THE "AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE."

Be it enacted by the Senate and House of Representatives, in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Joseph Henry of Washington, Benjamin Pierce of Cambridge, James D. Dana of New Haven, James Hall of Albany, Alexis Caswell of Providence, Stephen Alexander of Princeton, Isaac Lea of Philadelphia, F. A. P. Barnard of New York, John S. Newberry of Cleveland, B. A. Gould of Cambridge, T. Sterry Hunt of Boston, Asa Gray of Cambridge, J. Lawrence Smith of Louisville, Joseph Lovering of Cambridge, and John LeConte of Philadephia, their associates, the officers and members of the Association known as the "American Association for the Advancement of Science," and their successors, are hereby made a corporation by the name of the "American Association for the Advancement of Science," for the purpose of receiving, purchasing, holding, and conveying real and personal property, which it now is, or hereafter may be, possessed of, with all the powers and privileges, and subject to the restrictions, duties and liabilities set forth in the general laws which now or hereafter may be in force and applicable to such corporations.

SECTION 2. Said corporation may have and hold by purchase, grant, gift, or otherwise, real estate not exceeding two hundred and fifty thousand dollars in value, and personal estate in any amount.*

SECTION 3. Any two of the corporators above named are hereby authorized to call the first meeting of the said corporation in the month of August next ensuing, by notice thereof "by mail," to each member of the said Association.

SECTION 4. This act shall take effect upon its passage.

HOUSE OF REPRESENTATIVES, March 10, 1874.
Passed to be enacted,
JOHN E. SANFORD, *Speaker.*

IN SENATE, March 17, 1874.
Passed to be enacted,
GEO. B. LORING, *President.*

March 19, 1874.
Approved.
W. B. WASHBURN.

SECRETARY'S DEPARTMENT,
Boston, April 3, 1874.
A true copy, Attest:
DAVID PULSIFER,
Deputy Secretary of the Commonwealth.

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*(*In accordance with amendment by Special Act of Massachusetts Legislature, Chapter 238, approved March 30, 1915.*)

CONSTITUTION

OF THE

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Incorporated by Act of the General Court of the Commonwealth of Massachusetts.

OBJECTS.

ARTICLE 1. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of America, to give a stronger and more general impulse and more systematic direction to scientific research, and to procure for the labors of scientific men increased facilities and a wider usefulness.

MEMBERSHIP.

ART. 2. The Association shall consist of members, fellows, patrons, corresponding members and honorary fellows.

MEMBERS.

ART. 3. Any person may become a member of the Association upon recommendation in writing by two members or fellows, and election by the Council. Any incorporated scientific society or institution, or any public or incorporated library, may be enrolled as a member of the Association by vote of the Council by payment of the initiation fee; such society, institution, or library may be represented by either the President, Curator, Director, or Librarian presenting proper credentials at any meeting of the Association for which the assessment has been paid.

ASSOCIATES.

Associates for any single meeting shall be admitted on the payment of three dollars, such associates to have all the privileges of the meeting, except reading papers and voting.

Members of scientific societies whose meetings are contemporaneous with, or immediately subsequent to, that of the Association, and which

are recognized by vote of the Council as "Affiliated Societies," may become associate members for that meeting on the payment of three dollars. They shall be entitled to all the privileges of membership except voting or appointment to office, but their names shall not appear in the list of members printed in the report.

Foreign Associates.

Any member or fellow of any national scientific or educational institution, or of any society or academy of science, of any country not in America, who may be present at any meeting of the Association shall, on presenting the proper credentials, be enrolled without fee as a Foreign Associate, and shall be entited to all the privileges of the meeting except voting on matters of business.

Fellows.

Art. 4. Fellows shall be elected by the Council from such of the members as are professionally engaged in science, or have, by their labors, aided in advancing science. The election of fellows shall be by ballot and a majority vote of the members of the Council at a designated meeting of the Council.

Patrons.

Art. 5. Any person paying to the Association the sum of one thousand dollars shall be classed as a patron, and shall be entitled to all the privileges of a member and to all its publications.

Honorary Fellows and Corresponding Members.

Art. 6. Honorary fellows of the Association, not exceeding three for each Section, may be elected, the nominations to be made by the Council and approved by ballot in the respective sections before election by ballot in General Session. Honorary fellows shall be entitled to all the privileges of fellows, and shall be exempt from all fees and assessments, and entitled to all publications of the Association issued after the date of their election. Corresponding members shall consist of such scientists not residing in America as may be elected by the Council, and their number shall be limited to fifty.

SUSPENSIONS.

ART. 7. The name of any member or fellow two years in arrears for annual dues shall be erased from the list of the Association, provided, that two notices of indebtedness, at an interval of at least three months, shall have been given, and no such person shall be restored until he has paid his arrearages or has been re-elected. The Council shall have power to exclude from the Association any member or fellow, on satisfactory evidence that said member or fellow is an improper person to be connected with the Association, or has in the estimation of the Council made improper use of his membership or fellowship.

OFFICERS.

ART. 8. No member or fellow shall take part in the organization of, or hold office in, more than one section at any one meeting.

ART. 9. The officers of the Association shall be elected by ballot by the General Committee from the fellows, and shall consist of a President, a Vice-President from each section, a Permanent Secretary, a General Secretary, a Secretary of the Council, a Treasurer, and a Secretary of each Section; these, with the exception of the Permanent Secretary, the Treasurer, and the Secretaries of the Sections, shall be elected at each meeting for the following one, and, with the exception of the Treasurer and the Permanent Secretary, shall not be re-eligible for the next two meetings. The term of office of the Permanent Secretary, of the Treasurer, and of the Secretaries of the Sections, shall be five years.

PRESIDENT.

ART. 10. The President, or, in his absence, the senior Vice-President present, shall preside at all General Sessions of the Association and at all meetings of the Council. It shall also be the duty of the President to give an address at a General Session of the Association at the meeting following that over which he presided.

VICE-PRESIDENTS.

ART. 11. The Vice-Presidents shall be chairmen of their respective Sections, and of their Sectional Committees, and it shall be part of their duty to give an address, each before his own Section, at such time as the

Council shall determine, at the meeting subsequent to that at which he presides. The Vice-Presidents may appoint temporary chairmen to preside over the sessions of their Sections, but shall not delegate their other duties. The Vice-Presidents shall have seniority in order of their continuous membership in the Association.

General Secretary.

Art. 12. The General Secretary shall be the Secretary of all General Sessions of the Association, and shall keep a record of the business of these sessions. He shall receive the records from the Secretaries of the Sections, which, after examination, he shall transmit with his own records to the Permanent Secretary within two weeks after the adjournment of the meeting.

Secretary of the Council.

Art. 13. The Secretary of the Council shall keep the records of the Council. He shall give to the Secretary of each Section the titles of papers assigned to it by the Council. He shall receive proposals for membership and bring them before the Council.

Permanent Secretary.

Art. 14. The Permanent Secretary shall be the executive officer of the Association under the direction of the Council. He shall attend to all business not specially referred to committees nor otherwise constitutionally provided for. He shall keep an account of all business that he has transacted for the Association, and make annually a general report for publication. He shall attend to the printing ordered by the Association. He shall issue a circular of information to members and fellows at least three months before each meeting, and shall, in connection with the Local Committee, make all necessary arrangements for the meetings of the Association. He shall provide the Secretaries of the Association with such books and stationery as may be required for their records and business, and shall provide members and fellows with such blank forms as may be required for facilitating the business of the Association. He shall collect all assessments and admission fees,

and notify members and fellows of their election, and of any arrearages. He shall receive, and bring before the Council, the titles and abstracts of papers proposed to be read before the Association. He shall keep an account of all receipts and expenditures of the Association, and report the same annually at the first meeting of the Council, and shall pay over to the Treasurer such unexpended funds as the Council may direct. He shall receive and hold in trust for the Association all books, pamphlets, and manuscripts belonging to the Association, and allow the use of the same under the provisions of the Constitution and the orders of the Council. He shall receive all communications addressed to the Association during the intervals between meetings, and properly attend to the same. He shall at each meeting report the names of fellows and members who have died since the preceding meeting. He shall be allowed a salary which shall be determined by the Council, and may employ one or more clerks at such compensation as may be agreed upon by the Council.

Treasurer.

Art. 15. The Treasurer shall invest the funds received by him in such securities as may be directed by the Council. He shall annually present to the Council an account of the funds in his charge. No expenditure of the principal in the hands of the Treasurer shall be made without a unanimous vote of the Council, and no expenditure of the income received by the Treasurer shall be made without a two-thirds vote of the Council. The Treasurer shall give bonds for the faithful performance of his duty in such manner and sum as the Council shall from time to time direct.

Secretaries of the Sections.

Art. 16. The Secretaries of the Sections shall keep the records of their respective Sections, and, at the close of the meeting, give the same, including the records of subsections, to the General Secretary. They shall also be the Secretaries of the sectional committees. The Secretaries shall have seniority in order of their continuous membership in the Association.

Vacancies.

Art. 17. In case of a vacancy in the office of President, the senior Vice-President shall preside, as provided in Article 10, until the General Com-

mittee can be assembled and the vacancy filled by election. Vacancies in the offices of Vice-President, Permanent Secretary, Secretary of the Council, Secretaries of the Sections, and Treasurer, shall be filled by the Council by ballot.

COUNCIL.

ART. 18. The Council shall consist of the Past Presidents, and the Vice Presidents of the last two meetings, together with the President, the Vice-Presidents, the Permanent Secretary, the General Secretary, the Secretary of the Council, the Secretaries of the Sections, and the Treasurer of the current meeting, of one fellow elected from each Section by ballot on the first day of its meeting, of one fellow elected by each affiliated society, and one additional fellow from each affiliated society having more than twenty-five members who are fellows of the Association, and of nine fellows elected by the Council, three being annually elected for a term of three years. The members present at any regularly called meeting of the Council, provided there are at least five, shall form a quorum for the transaction of business. The Council shall meet on the day preceding each annual meeting of the Association, and arrange the program for the first day of the sessions. The time and place of this first meeting shall be designated by the Permanent Secretary. Unless otherwise agreed upon, regular meetings of the Council shall be held in the Council room at 9 o'clock A. M., on each day of the meeting of the Association. Special meetings of the Council may be called at any time by the President. The Council shall be the board of supervision of the Association, and no business shall be transacted by the Association that has not first been referred to, or originated with, the Council. The Council shall decide which papers, discussions, and other proceedings shall be published, and have the general direction of the publications of the Association: manage the financial affairs of the Association; arrange the business and programs for General Sessions; suggest subjects for discussion, investigation or reports; elect members and fellows; and receive and act upon all invitations extended to the Association and report the same at a General Session of the Association. The Council shall receive all reports of Special Committees and decide upon them, and only such shall be read in General Session as the Council shall direct. The Council shall appoint at each meeting the following subcommittees who shall act, subject to appeal to the whole Council,

until their successors are appointed at the following meeting: 1, on Papers and Reports; 2, on Members; 3, on Fellows.

General Committee.

Art. 19. The General Committee shall consist of the Council and one member or fellow elected by each of the Sections, who shall serve until their successors are elected. It shall be the duty of the committee to meet at the call of the President and elect the general officers for the following meeting of the Association. It shall also be the duty of this committee to fix the time and place for the next meeting. The Vice-President and Secretary of each Section shall be recommended to the General Committee by the Sectional Committee.

Meetings.

Art. 20. The Association shall hold a public meeting annually for one week or longer, at such time and place as may be determined by vote of the General Committee, and the preliminary arrangements for each meeting shall be made by the Local Committee, in conjunction with the Permanent Secretary and such other persons as the Council may designate.

But, if suitable preliminary arrangements cannot be made, the Council may afterwards change the time and place appointed by the General Committee, if such change is believed advisable by two-thirds of the members present.

Art. 21. A General Session shall be held at 10 o'clock A. M., on the first day of the meeting, and at such other times as the Council may direct.

Sections and Subsections.

Art. 22. The Association shall be divided into Sections, namely:—A, *Mathematics and Astronomy;* B, *Physics;* C, *Chemistry, including its application to Agriculture and the Arts;* D, *Engineering;* E, *Geology and Geography;* F, *Zoology;* G, *Botany;* H, *Anthropology and Psychology;* I, *Social and Economic Science;* K, *Physiology and Experimental Medicine;* L, *Education;* M, *Agriculture.* The Council shall have power to create additional Sections from time to time and to discontinue, combine or re-arrange existing Sections. The Council shall have power to consolidate any two or more Sections temporarily, and such consolidated Sections shall be presided over by the senior Vice-President and Secretary of the Sections comprising it.

SECTIONAL COMMITTEES.

ART. 23. Immediately on the organization of a Section there shall be a member or fellow elected by ballot after open nomination, who, with the Vice-President and Secretary and the preceding Vice-President and Secretary and the Presidents and Secretaries of those affiliated societies which shall be designated by the Council and the members or fellows elected by ballot at the four preceding meetings, shall form its Sectional Committee. The Sectional Committees shall have power to fill vacancies in their own numbers. Meetings of the Sections shall not be held at the same time with a General Session. The Sectional Committee may invite distinguished foreign associates present at any meeting to serve as honorary members of said Committee.

ART. 24. The Sectional Committee of any Section may at its pleasure form one or more temporary Subsections, and may designate the officers thereof. The Secretary of a Subsection shall, at the close of the meeting, transmit his records to the Secretary of the Section.

ART. 25. No paper shall be read in any Section or Subsection until it has been placed on the program of the day by the Sectional Committee.

ART. 26. The Sectional Committees shall arrange and direct the business of their respective Sections. They shall prepare the daily programs and give them to the Permanent Secretary for printing at the earliest moment practicable. No titles of papers shall be entered on the daily programs except such as have passed the Committee. No change shall be made in the program for the day in a Section without the consent of the Sectional Committee. The Sectional Committee may refuse to place the title of any paper on the program; but every such title, with the abstract of the paper or the paper itself, must be referred to the Council with the reasons why it was refused. The Sectional Committees shall also make nominations to the General Committee for Vice-President and Secretary of their respective Sections as provided for in Article 19.

ART. 27. The Sectional Committees shall examine all papers and abstracts referred to the Sections, and they shall not place on the program any paper inconsistent with the character of the Association; and to this end they have power to call for any paper, the character of which may not be sufficiently understood from the abstract submitted.

PAPERS AND COMMUNICATIONS.

ART. 28. All members and fellows must forward to the Secretary of the proper Section or to the Permanent Secretary, as early as possible, and, when practicable, before the convening of the Association, full titles of all the papers which they propose to present during the meeting, with a statement of the time that each will occupy in delivery, and also such abstracts of their contents as will give a general idea of their nature; and no title shall be considered by a Sectional Committee until an abstract of the paper or the paper itself has been received.

ART. 29. If the author of any paper be not ready when called upon, in the regular order of the official program, the title may be dropped to the bottom of the list.

ART. 30. Whenever practicable, the proceedings and discussions at General Sessions, Sections and Subsections, shall be reported by professional reporters, but such reports shall not appear in print as the official reports of the Association unless revised by the Secretaries.

PRINTED PROCEEDINGS.

ART. 31. The Permanent Secretary shall publish from time to time a list of officers and members of the Association together with such other matter as the Council may direct. Immediately on publication of the volume, a copy shall be forwarded to every member and fellow of the Association who shall have paid the assessment for the meeting to which it relates, and it shall also be offered for sale by the Permanent Secretary at such price as may be determined by the Council. The Council shall also designate the institutions to which copies shall be distributed.

LOCAL COMMITTEE.

ART. 32. The Local Committee shall consist of persons interested in the objects of the Association and residing at or near the place of the proposed meeting. It is expected that the Local Committee, assisted by the officers of the Association, will make all essential arrangements for the meeting, and issue a circular, giving necessary particulars, at least one month before the meeting.

LIBRARY OF THE ASSOCIATION.

ART. 33. All books and pamphlets received by the Association shall be in charge of the Permanent Secretary, who shall have a list of the same printed and shall furnish a copy to any member or fellow on application. Members and fellows who have paid their assessments in full shall be allowed to call for books and pamphlets, which shall be delivered to them at their expense on their giving a receipt agreeing to make good any loss or damage, and to return the same free of expense to the Permanent Secretary at the time specified in the receipt given. All books and pamphlets in circulation must be returned at each meeting. Not more than five books, including volumes, parts of volumes, and pamphlets, shall be held at one time by any member or fellow. Any book may be withheld from circulation by order of the Council. [The Library of the Association was, by vote of the Council in 1895, placed on deposit in the Library of the University of Cincinnati, Ohio. Members can obtain the use of books by writing to the Librarian of the University Library, Cincinnati, Ohio.]

ADMISSION FEE AND ASSESSMENTS.

ART. 34. The admission fee for members shall be five dollars in addition to the annual dues.

ART. 35. The annual dues for members and fellows shall be three dollars.

ART. 36. Any member or fellow who shall pay the sum of fifty dollars to the Association, at any one time, shall become a Life Member, and as such shall be exempt from all further assessments, and shall be entitled to the Proceedings of the Association. All money thus received shall be invested as a permanent fund, the income of which, during the life of the member, shall form a part of the general fund of the Association; but, after his death, shall be used only to assist in original research, unless otherwise directed by unanimous vote of the Council. (New members becoming life members must pay the admission fee of five dollars.)

ART. 37. All fees and dues must be paid to the Permanent Secretary, who shall give proper receipts for the same.

ACCOUNTS.

ART. 38. The accounts of the Permanent Secretary and of the Treasurer shall be audited annually by Auditor appointed by the Council.

ALTERATIONS OF THE CONSTITUTION.

ART. 39. No part of this Constitution shall be amended or annulled, without the concurrence of three-fourths of the members and fellows present in General Session, after notice given at a General Session of a preceding meeting of the Association.

MEMBERS AND FELLOWS

OF THE

AMERICAN ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE

PATRONS.

[Persons contributing one thousand dollars or more to the Association are classed as Patrons, and are entitled to the privileges of members and to the publications. The names of Patrons are to remain permanently on the list.]

THOMPSON, MRS. ELIZABETH, Stamford, Conn. (22). (Died July, 1899.)

LILLY, GEN. WILLIAM, Mauch Chunk, Pa. (28). (Died December 1, 1893.)

HERRMAN, MRS. ESTHER, New York, N. Y. (29). (Died July 4, 1911.)

MCMILLIN, EMERSON, 40 Wall Street, New York, N. Y. (37).

MEMBERS AND FELLOWS.

The names designated by an asterisk (*) are those of Fellows. (See ARTICLE IV of the Constitution.) The number in parenthesis indicates the meeting at which the Member joined the Association; the date following is the year when made a Fellow; the black letters at end of line are those of the Sections to which the Member or Fellow belongs. When the name is given in small capitals, it designates that the Member or Fellow is also a Life Member. Any Member or Fellow may become a Life Member by the payment of fifty dollars. (New Members becoming Life Members must pay the admission fee of five dollars.) The income of the money derived from a life membership is used for the general purposes of the Association during the life of the Member; afterwards it is to be used to aid in original research. Life Members are exempt from the annual assessment, and are entitled to the publications. The names of Life Members are printed in small capitals in the regular list of Members and Fellows.

The Constitution requires that the names of all Members two years in arrears shall be omitted from the list, but their names will be restored on payment of arrearages. Members not in arrears are entitled to the publications of the Association, including the journal *Science*. ($1.00 foreign postage on *Science* extra.)

[NOTE.—The omission of an address in the following list indicates that letters mailed to that last printed were returned as uncalled for. Information as to the present address of the members so indicated is requested by the PERMANENT SECRETARY.]

Aaronsohn, Dr. Aaron, Jewish Agricultural Experiment Station, Haifa, Palestine, Turkey, Asia. (61). G

Abadie, Eugene Hilarian, Consulting Engineer, Third National Bank Building, St. Louis, Mo. (58). D

*Abbe, Cleveland, Ph. D., LL. D., U. S. Weather Bureau, Washington, D. C.. (16). 1874. A B

*Abbe, Cleveland, Jr., Ph. D., U. S. Weather Bureau, Washington, D. C. (44). 1899. E

*Abbe, Robert, M. D., 13 West 50th St., New York, N. Y. (36). 1892. K

Abbey, Charles A., Cosmos Club, Washington, D. C. (62).

*Abbot, Charles Greeley, Smithsonian Institution, Washington, D. C. (49). 1902. B

ABBOT, E. STANLEY, M. D., First Assistant Physician, McLean Hospital, Waverly, Mass. (54). K

*Abbott, Alexander Crever, M. D., Sc. D., University of Pennsylvania, Philadelphia, Pa. (52). 1905. K

Abbott, Charles H., State College of Washington, Pullman, Wash. . (66). F

Abbott, Edwin K., M. D., Monterey, Cal. (60). K

*Abbott, Edwina, Newcomb College, New Orleans, La. (61). 1915. H

Abbott, Frank L., Professor of Physical Sciences, State Normal School, Greeley, Colo. (50). B E

*Abbott, James Francis, Ph. D., Professor of Zoology, Washington University, St. Louis, Mo. (58). 1910. F

Abbott, Samuel A. B., Villa Lontana, via Cassia, Rome, Italy. (60).

Abbott, Theodore Sperry, C. E., Saltillo, Coahuila, Mexico. (52). D

*Abel, John Jacob, M. D., Sc. D., Professor of Pharmacology, Johns Hopkins University, Baltimore, Md. (51). 1902. C K

Abercrombie, Ronald Taylor, M. D., Homewood Apartments, Charles and 31st Sts., Baltimore, Md. (60). K

*Abrams, Duff Andrew, C. E., Lewis Institute, Chicago, Ill. (60). 1915. D

*Abrams, LeRoy, Associate Professor of Botany, Leland Stanford Junior University, Stanford University, Cal. (54). 1909. G

Abt, Joseph L., M. D., 1832 South Halsted St., Chicago, Ill. (58). K

*Acheson, Edward Goodrich, Sc. D., President, International Acheson Graphite Company, Niagara Falls, N. Y. (50). 1903. C

Achorn, Kendall Lincoln, 178 Huntington Ave., Boston, Mass. (60). **K**

Ackerman, Ernest R., C. E., 506 W. 8th St., Plainfield, N. J. (60). **D**

*Ackert, James Edward, Ph. D., Asst. Professor of Zoology, Kansas State Agricultural College, Manhattan, Kans. (63). 1915. **F**

Acland, F. A., Deputy Minister of Labor for Canada, Ottawa, Canada. (60). **I**

*Acree, Solomon Farley, Ph. D., Professor of Chemistry of Forest Products, University of Wisconsin, Madison, Wis. (58). 1910. **C**

Adair, Fred L., M.D., 820 Donaldson Building, Minneapolis, Minn. (61). **K**

Adam, George, M. D., 2937 Fillmore St., San Francisco, Cal. (60). **K**

*Adams, Charles Christopher, Ph. D., Assistant Professor of Forest Zoology, N. Y. State College of Forestry, Syracuse, N. Y. (50). 1903. **F**

Adams, Charles Frederick, Dean, College of Agriculture, University of Arkansas, Fayetteville, Ark. (54). **F**

*Adams, Comfort Avery, E. E., Professor of Electrical Engineering, Harvard University, Cambridge, Mass. (47). 1910. **B E**

*Adams, Cyrus Cornelius, 134 Claremont Ave., New York, N. Y. (54). 1906. **E**

*Adams, Edward Dean, LL. D., 71 Broadway, New York, N. Y. (49). 1913. **I**

*Adams, Edwin Plimpton, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (58). 1910. **A B C**

Adams, Ephraim Douglass, Ph. D., Professor of History, Leland Stanford Junior University, Stanford University, Cal. (65).

*Adams, Frank Dawson, Sc. D., Ph. D., Dean, Faculty of Applied Science, McGill University, Montreal, Canada. (60). 1910. **E**

Adams, Franklin, The Marlborough, Washington, D. C. (63).

Adams, Frederick Carhart, 28 Winnemay St., Natick, Mass. (50). **B C L**

Adams, George E., 108 So. LaSalle St., Chicago, Ill. (58).

Adams, George E., Professor of Agronomy, R. I. State College, Kingston, R. I. (66). **M**

Adams, Harry Clifton, Rittenhouse Club, 1811 Walnut St., Philadelphia, Pa. (65).

Adams, James Fowler, Pennsylvania State College, State College, Pa. (65). **G**

Adams, John, Central Experiment Farm, Ottawa, Canada. (65). **G**

Adams, Leverett A., Department of Zoology, Columbia University, New York, N. Y. (66). **F**

Adams, Matthew Prior, Dept. of Physics and Chemistry, State Normal School, P. O. Box 555, New Britain, Conn. (54). **B C**

*Adams, Maxwell, Ph. D., Professor of Chemistry, University of Nevada, Reno, Nevada. (57). 1909. **C**

*Adamson, George P., 233 Reeder St., Easton, Pa. (62). 1915. **C**

Addicks, John Edward, 3d, care E. I. du Pont de Nemours Powder Co., P. O. Box 1154, Atlanta, Ga. (60). **C E**

*Addison, William Henry Fitzgerald, Assistant Professor of Normal Histology and Embryology, University of Pennsylvania, Philadelphia, Pa. (60). 1913. **K**

Aderhold, Thomas Maze, M. D., El Reno, Okla. (58). **K**.
Adger, Miss Willian, 2000 De Lancey St., Philadelphia, Pa. (65).
Adkinson, Miss June, 10 Fairview St., Dorchester, Mass. (66). **F G**
*Adler, Cyrus, Ph. D., 2041 North Broad St., Philadelphia, Pa. (54). 1906. **H**
*Adler, Herman Morris, M. D., Chief of Staff, Psychopathic Hospital, Boston, Mass. (60). 1915. **C K**
*Adler, Isaac, M. D., 401 West End Ave., New York, N. Y. (49). 1903. **F K**
*Adler, Leon N., Ph. D., 100 William St., New York, N. Y. (56). 1909. **C**
Adler, Samuel, Alabama Polytechnic Institute, Auburn, Ala. (64). **G**
*Adriance, John Sabin, Ph. D., Williamstown, Mass. (39). 1895. **C**
Adsit, Charles George, E. E., Tallulah Falls, Ga. (60). **D**
*Agnew, Paul Gough, Bureau of Standards, Washington, D. C. (54). 1910. **B**
Agrelius, Frank U. G., Dept. of Biology, Kansas State Normal School, Emporia, Kans. (60). **F G**
*Aguilera, José G., Director, Geological Institute of Mexico, 6*a* Del Cipres No. 176, Mexico, D. F., Mexico. (53). 1905. **E**
*Ahern, Michael J., S. J., Canisius College, Buffalo, N. Y. (57). 1915. **E**
Aicher, L. C., Superintendent, Agricultural Experiment Sub-station, Aberdeen, Idaho. (66). **M**
*Aikins, Herbert Austin, M. D., Ph. D., LL. D., Professor of Philosophy, Western Reserve University, Cleveland, Ohio. (58). 1910. **H K L**
Ailes, Milton Everett, Vice-Pres., Riggs National Bank, Washington, D. C. (52). **I**
*Ainslie, Charles Nicolas, Elk Point, S. D. (60). 1914. **F**
*Ainslie, Prof. George Gooding, U. S. Entomological Laboratory, Nashville, Tenn. (58). 1914. **F**
*Aitken, Robert Grant, Sc. D., Lick Observatory, Mt. Hamilton, Cal. (53). 1906. **A**
Akeley, Lewis E., Dean, College of Engineering, University of South Dakota, Vermilion, S. D. (51). **B C**
Akerley, Arthur W., M. D., National Soldiers Home Hospital, Danville, Ill. (58). **K**
Akers, Oscar Perry, Ph. D., Professor of Mathematics, Allegheny College, Meadville, Pa. (60). **A**
*Albert, Henry, M. D., Professor of Pathology and Bacteriology, State University of Iowa College of Medicine, Iowa City, Iowa. (57). 1910. **K**
Albrecht, Emil Poole, Secretary of the Bourse, 1523 North 17th St., Philadelphia, Pa. (51). **A D**
Albrecht, George Moritz, Assistant Examiner, U. S. Patent Office, Washington, D. C. (64).
*Albrecht, Sebastian, Ph. D., Dudley Observatory, Albany, N. Y. (52). 1906. **A**

Albree, Chester B., M. E., 1201 Metropolitan St., N. S., Pittsburgh, Pa. (50). **D**

Alcott, Rev. William P., Boxford, Mass. (60).

Alden, Miss Isabel, 24 Waldron Ave., Summit, N. J. (60). **G**

*Alden, John, Chemist, Pacific Mills, Lawrence, Mass. (36). 1898. **C**

Alderman, William H., 184 1st St., Morgantown, W. Va. (62). **G**

Alderson, Harry Everett, M. D., Clinical Associate Professor of Medicine, Leland Stanford Junior University, Stanford University, Cal. (66). **K**

*Alderson, Victor Clifton, Sc. D., 1043 Emerson St., Denver, Colo. (50). 1903. **A D**

Aldrich, Fred Davis, Worcester Academy, Worcester, Mass. (60). **A**

*Aldrich, Loyal Blaine, Smithsonian Institution, Washington, D. C. (61). 1915. **A B**

Aldrich, Mrs. Richard, 317 West 74th St., New York, N. Y. (65).

*Alexander, Prof. Carter, Peabody College for Teachers, Nashville, Tenn. (63). 1915. **L**

*Alexander, Daniel Basil William, 3814 Santa Fe Ave., Los Angeles, Cal. (57). 1915. **C**

Alexander, Harry, E. E., M. E., 18–20 West 34th St., New York, N. Y. (50). **D**

Alexander, Hugh S., Macalester College, St. Paul, Minn. (60).

Alexander, Kay, C. E., Ravelstoke, B. C., Canada. (58). **D**

Alexander, Robert Lee, C. E., Naramata, B. C., Canada. (60). **D**

Alexander, William H., U. S. Weather Bureau, Cleveland, Ohio. (64).

*Aley, Robert Judson, Ph. D., LL. D., President, University of Maine, Orono, Me. (49). 1906. **A**

Alfred, C. Morton, M. D., 640 N. Columbus St., Lancaster, Ohio. (60). **K**

Allabach, Miss Lulu Florence, The Berkshire, Pittsburgh, Pa. (52). **F G**

*Allan, John A., Ph. D., University of Alberta, Edmonton, Canada. (60). 1915. **E**

Allan, Thomas J., 1145 Regent St., Alameda, Cal. (65).

Allee, Warder Clyde, Ph. D., Assistant Professor of Zoology, University of Oklahoma, Norman, Okla. (63). **G**

*Alleman, Gellert, Ph. D., Professor of Chemistry, Swarthmore College, Swarthmore, Pa. (50). 1909. **C**

*Allen, Bennet Mills, Ph. D., Head, Department of Zoology, University of Kansas, Lawrence, Kans. (54). 1906. **F K**

*Allen, Charles Elmer, Ph. D., Professor of Botany, University of Wisconsin, Madison, Wis. (55). 1908. **G**

Allen, Charles Metcalf, Professor of Experimental Engineering, Worcester Polytechnic Institute, Worcester, Mass. (52). **D**

*Allen, Edwin West, Ph. D., Editor, *Experiment Station Record*, U. S. Department of Agriculture, Washington, D. C. (52). 1909. **C M**

Allen, Miss Eleanor W., 12 Commonwealth Ave., Boston, Mass. (60).

Allen, Ezra, Professor of Biology, School of Pedagogy, Philadelphia, Pa. (64). **F**

*Allen, Frank, Ph. D., Professor of Physics, University of Manitoba, Winnipeg, Manitoba, Canada. (49). 1903. **B**

Allen, Prof. George Delwin, 1116 15th Ave., S. E., Minneapolis, Minn. (62). **F**

Allen, Mrs. George W., The Cottage, Cazenovia, N. Y. (65).

*Allen, Glover Morrill, Ph. D., 234 Berkeley St., Boston, Mass. (58). 1913. **F**

Allen, Harrison S., 120 Clowes Terrace, Waterbury, Conn. (60). **C**

Allen, Harry E., Assistant Professor of Animal Husbandry, Purdue University, La Fayette, Ind. (64). **F**

Allen, James Lane, LL. D., 166 West 78th St., New York, N. Y. (57). **I**

*Allen, Joel Asaph, Ph. D., American Museum of Natural History, New York, N. Y. (60). 1911. **F H**

*Allen, Prof. Joseph, 9 Myrtle St., White Plains, N. Y. (58). 1909. **A**

Allen, Mrs. Martha M., Forest Hills Gardens, Flushing, L. I., N. Y. (62).

*Allen, Reginald Bryant, Ph. D., Professor of Mathematics, Kenyon College, Gambier, Ohio. (58). 1909. **A**

Allen, Ruth Florence, Ph. D., 27 Church St., Wellesley, Mass. (65). **G**

*Allen, Walter S., care General Chemical Co., Laurel Hill, L. I., N. Y. (58). 1915. **C**

Allen, William Frederick, C. E., 180 Scotland Road, South Orange, N. J. (55). **A D**

Allen, Wynfred E., care High School, Stockton, Cal. (65).

Aller, Henry Day, U. S. Bureau of Fisheries, Washington, D. C. (57). **F**

Alling, Harold Lattimore, 400 Oxford St., Rochester, N. Y. (63). **B**

*Allis, Edward Phelps, Jr., LL. D., Palais de Carnolès, Mentone, South France. (52). 1905. **F**

*Allison, Charles Edward, M. D., Elysburg, Pa. (51). 1906. **K**

Allorge, Maurice Marcel, Lecturer in Geomorphology, Merton College, Oxford, England. (60). **E**

*Almy, Frank Fayette, Ph. D., Professor of Physics, Grinnell College, Grinnell, Iowa. (57). 1909. **B**

*Almy, John Edwin, Ph. D., Professor of Physics, University of Nebraska, Lincoln, Nebr. (50). 1901. **B**

Alpers, Martin Edward, Jr., 94 Randolph Ave., Dover, N. J. (57). **K**

*Alpers, William Charles, Sc. D., Dean, Cleveland School of Pharmacy, Cleveland, Ohio. (50). 1911. **C I**

*Alsberg, Carl Lucas, M. D., Chief, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (55). 1908. **C**

Alsop, E. B., 1502 20th St., N. W., Washington, D. C. (50). **D**

*Alspach, Edmund Franklin, North Yakima, Wash. (48). 1915. **H**

Altmaier, Carl Lewis, Professor of Secretarial Studies, Drexel Institute, Philadelphia, Pa. (66). **I**

Alves, Henry L., 855 Hampshire St., San Francisco, Cal. (65).

*Alvord, John Watson, C. E., 5203 Kenwood Ave., Chicago, Ill. (58). 1911. **D**

*Alway, Frederick James, Ph. D., University Farm, St. Paul, Minn. (60). 1911. **C**

*Alwood, William Bradford, "Stonehenge," Rio Road, Charlottesville, Va. (39). 1891. **C G**

*Amberg, Emil, M. D., 270 Woodward Ave., Detroit, Mich. (58). 1909. **H K**

Ames, Charles Wilberforce, 501 Grand Ave., St. Paul, Minn. (61). **L**

*Ames, Edward Scribner, Ph. D., Assistant Professor of Philosophy, University of Chicago, Chicago, Ill. (58). 1910. **H**

*Ames, Oakes, Director, Botanic Garden of Harvard University, North Easton, Mass. (50). 1905. **G**

*Ami, Henry Marc, Sc. D., 453 Laurier Ave., East, Ottawa, Canada. (54). 1906. **E F G H**

Amstutz, Noah Steiner, E. E., Valparaiso, Ind. (60). **D**

Ancker, Walter, B. and O. Building, Baltimore, Md. (60).

*Anders, Howard S., M. D., 1700 Walnut St., Philadelphia, Pa. (51). 1911. **B K L**

Anderson, A. J. C., 90 Wall St., New York, N. Y. (49).

*Anderson, Alexander Pierce, Ph. D., 5552 Everett Ave., Chicago, Ill. (45). 1899. **G**

Anderson, Prof. Andrew W., 1658 Lincoln Ave., St. Paul, Minn. (62). **H L**

Anderson, Arvid Robert, 239 East 19th St., Columbus, Ohio. (65). **D**

Anderson, David Allen, Ph. D., Asst. Professor of Education, University of Washington, Seattle, Washington. (64). **L**

Anderson, David Guy, C. E., 4032 Walnut St., Philadelphia, Pa. (60). **D**

*Anderson, Douglas Smith, E. E., Professor of Electrical Engineering, Tulane University, New Orleans, La. (49). 1910. **B D**

*Anderson, Frank, E. M., 468 12th East St., Salt Lake City, Utah. (50). 1906. **D E**

*Anderson, Frank M., Cartagena Oil Refining Co., Cartagena, Colombia, S. A. (65). 1915. **E**

Anderson, Frank P., Epworth Seminary, Epworth, Iowa. (46).

Anderson, George Gray, C. E., 626 First National Bank Building, Denver, Colo. (60). **D**

*Anderson, Harry Warren, Professor of Botany, Wabash College, Crawfordsville, Ind. (63). 1913. **G**

Anderson, Jacob Peter, Alaska Agricultural Experiment Station, Sitka, Alaska. (66). **G M**

*Anderson, John F., M. D., U. S. Public Health Service, Washington, D. C. (58). 1908. **K**

Anderson, Leroy, Ph. D., Box 131, Route 9, Campbell, Cal. (63). **G**

Anderson, Malcolm Playfair, R. F. D. 1, Watsonville, Cal. (65).

Anderson, Robert B., M. D., 925 Sterling Place, Brooklyn, N. Y. (60). **K**

*Anderson, Robert Van Vleck, 7 Richmond Terrace, Whitehall, London, S. W., England. (57). 1911. **E F**

Anderson, Samuel Herbert, University of Washington, Seattle, Wash. (58). **B**

Anderson, William Jenkins Webb, M. D., Wesleyan Mission, Canton, China. (63). **K**

Anderson, Winslow, M. D., President, College of Physicians and Surgeons of San Francisco, 1065 Sutter St., San Francisco, Cal. (51). **K**

*Andrews, Clement Walker, LL. D., Librarian, The John Crerar Library, Chicago, Ill. (53). 1908. **C**

Andrews, Daniel Marshall, C. E., P. O. Box 763, Montgomery, Ala. (60). **D**

Andrews, Eliza Frances, 419 East 1st St., Rome, Ga. (65). **G**

*Andrews, Ethan Allen, Ph. D., Professor of Zoology, Johns Hopkins University, Baltimore, Md. (58). 1909. **F**

Andrews, Mrs. Ethan Allen, 821 St. Paul St., Baltimore, Md. (60). **F H**

*Andrews, Frank Marion, Ph. D., Associate Professor of Botany, Indiana University, Bloomington, Ind. (52). 1903. **G**

*Andrews, Launcelot Winchester, Ph. D., 917 18th St., N. W., Washington, D. C. (58). 1909. **C**

Andrews, Roy Chapman, American Museum of Natural History, New York, N. Y. (62).

Andrews, W. W., LL.D., Mt. Allison University, Sackville, N. B., Canada. (60). **C**

Andrews, William Edward, Principal, Township High School, Taylorville, Ill. (52). **D**

Andrews, William Symes, E. E., General Electric Company, Schenectady, N. Y. (50). **D E**

*Angela, Sister Helen, Ph. D., Professor of Botany, College of St. Elizabeth, Convent Station, N. J. (58). 1911. **E G**

Angell, M. F., Moscow, Idaho. (65).

Angell, William R., 801 West Adams St., Chicago, Ill. (58).

Angerstein, Thomas Chester, 1300 Harvester Building, Chicago, Ill. (63).

*Angier, Roswell Parker, Ph. D., Assistant Professor of Psychology, Yale University, New Haven, Conn. (57). 1911. **K**

*Angle, Edward H., M. D., 58 Bellevue Place, New London, Conn. (53). 1915. **F**

*Angle, Edward John, M. D., 514 No. 25th St., Lincoln, Nebr. (65). 1915. **F K**

Ansley, William Bailey, M. D., 34 Indiana Ave., Saltsburg, Pa. (60). **K**

Anthony, Charles, C. E., Gen. Mgr., Bahia Blanca Waterworks Co., Casilla de Correo 149, Bahia Blanca, Argentina, S. A. (60). **D**

*Anthony Gardner Chace, Sc. D., Professor of Technical Drawing and Dean, Engineering School, Tufts College, Tufts College, Mass. (56). 1912. **D E**

Anthony, Mrs. S. Reed, 125 Beacon St., Boston, Mass. (60).

Apfel, Philip F., Raeco, Wash. (58). **C**

App, John C., P. O. Box 464, Charleston, W. Va. (60). **C**

*Apple, A. Thomas G., Director, Daniel Scholl Observatory, Lancaster, Pa. (61). 1914. **A**

Apple, Joseph Henry, President, Hood College, Frederick, Md. (52). **I**

Appleman, Charles Orval, Ph. D., College Park, Md. (62).

*Appleton, John Howard, Sc. D., Emeritus Professor of Chemistry, Brown University, Providence, R. I. (50). 1901. **C**

*Appleton, L. Estelle, Ph. D., Department of Psychology and Education, Kindergarten Training School, Grand Rapids, Mich. (65). 1915. **H L**

Appleton, William Day, E. E., Apartado 23, Zamora, Michoacan, Mexico. (58). **D**

Archer, William J., Superior, Wis. (58). **C**

*Archibald, Ebenezer Henry, Ph. D., Associate Professor of Chemistry, Syracuse University, Syracuse, N. Y. (60). 1911. **C**

*Archibald, Raymond Clare, Ph. D., Assistant Professor of Mathematics, Brown University, Providence, R. I. (54). 1906. **A**

Arctowski, Henryk, Ph. D., New York Public Library, 476 5th Ave., New York, N. Y. (63).

*Arey, Melvin Franklin, Professor of Natural Sciences, Iowa Teachers College, Cedar Falls, Iowa. (63). 1914. **E**

*Argall, Philip, E. M., First National Bank Building, Denver, Colo. (54). 1906. **C E**

ARGOLLO, MIGUEL T., C. E., Hotel Bayerischerhof, Munich, Germany. (60). **D**

Arkin, Aaron, P. O. Box 324, Morgantown, W. Va. (65).

Arlitt, Ada Hart, 5652 Maryland Ave., Chicago, Ill. (64).

Armfield, Frank, Monroe, N. C. (55). **I**

Armitage, Thomas L., M. D., Princeton, Minn. (51). **K**

*Arms, Burdett Loomis, M. D., Professor of Preventive Medicine, University of Texas, Galveston, Texas. (60). 1911. **K**

*Armsby, Henry Prentiss, Ph. D., LL. D., Director, Institute of Animal Nutrition, Pennsylvania State College, State College, Pa. (52). 1903. **C M**

ARMSTRONG, LIEUT. DONALD, U. S. A., Coast Artillery Corps, Fort Williams, Me. (62).

Armstrong, E. J., M. E., 954 West 9th St., Erie, Pa. (58). **D**

ARMSTRONG, LIEUT. FRANCIS TUTTLE, U. S. A., Fort McKinley, Maine. (63).

Armstrong, Gordon Nelson, Delaware, Ohio. (66). **A**

Armstrong, John M., M. D., 1979 Goodrich Ave., St. Paul, Minn. (60). **K**

Armstrong, Lyndon K., E. M., Editor, *Northwest Mining News*, P. O. Drawer 2154, Spokane, Wash. (58). **D**

Armstrong, Miss Margaret, 58 West 10th St., New York, N. Y. (65).

ARMSTRONG, SAMUEL TREAT, M. D., Ph. D., Katonah, N. Y. (57). **K**

Arnold, Alma C., 2025 Broadway, New York, N. Y. (58). **K**

*Arnold, Bion Joseph, Sc. D., E. E., 105 South La Salle St., Chicago, Ill. (50). 1903. **D**

Arnold, Ernst Hermann, M. D., Director, New Haven Normal School of Gymnastics, New Haven, Conn. (52). K

*Arnold, Felix, Ph. D., 824 St. Nicholas Ave., New York, N. Y. (58). 1910. H L

*Arnold, Harold De Forrest, 463 West St., New York, N. Y. (57). 1915. B

*Arnold, Ralph, Ph. D., Union Oil Building, Los Angeles, Cal. (51). 1906. E

Arnold, Robert B., 614 W. Franklin St., Richmond, Va. (63).

*Arny, Henry Vinecombe, Ph. D., Professor of Chemistry, New York College of Pharmacy, 115 West 68th St., New York, N. Y. (60). 1911. C

*Arps, George Frederick, Ph. D., 216 East Lane Ave., Columbus, Ohio. (62). 1911. H

Arter, Frank Asbury, 605 Scofield Building, Cleveland, Ohio. (63).

*Arthur, Joseph Charles, Sc. D., Chief Botanist, Agricultural Experiment Station, La Fayette, Ind. (21). 1883. G

Arundel, John T., Savoy Hotel, Bournemouth, England. (65).

Ash, Dorsey, 2555 Buena Vista Way, Berkeley, Cal. (65).

Ashbrook, Donald Sinclair, 16 Willard St., Wilmington, Del. (51). C

*Ashley, George Hall, Ph. D., U. S. Geological Survey, Washington, D. C. (51). 1903. E F

Ashworth, D. Irving, P. O. Box 503, Wappingers Falls, N. Y. (58). C

Aspinwall, John, Newburgh, N. Y. (49).

Atherton, F. C., P. O. Box 148, Honolulu, Hawaii. (66).

Atkins, Martin D., 269 Forest Ave., River Forest, Ill. (48). B

Atkinson, Albert Algernon, E. E., Professor of Physics and Electrical Engineering, Ohio University, Athens, Ohio. (60). B D

Atkinson, Alfred, Professor of Agronomy, Montana State College of A. and M. Arts, Bozeman, Mont. (62). G M

Atkinson, Daniel Armstrong, M. D., 132 Oakwood Ave., West View, Pa. (56). K

*Atkinson, George Francis, Ph. D., Professor of Botany, Cornell University, Ithaca, N. Y. (39). 1892. G

Atsatt, Sarah R., 345 South Serrano Ave., Los Angeles, Cal. (65).

*Attix, James Conner, M. D., 2355 N. 13th St., Philadelphia, Pa. (60). 1911. K

Atwater, Christopher G., American Coal Products Co., 17 Battery Place, New York, N. Y. (66). M

*Atwell, Charles Beach, Professor of Botany, Northwestern University, Evanston, Ill. (36). 1890. G

*Atwood, Wallace Walter, Ph. D., Professor of Physiography, Harvard University, Cambridge, Mass. (58). 1910. E L

*Atwood, Winfred M., Oregon State Agricultural College, Corvallis, Oregon. (63). 1915. G

Aue, Joseph E., M. E., De la Vergne Machine Co., New York, N. Y. (58). D

Aull, William B., Jr., S. C. Agricultural Experiment Station, Clemson College, S. C. (64). **G**

*Ault, J. P., Department of Terrestrial Magnetism, Washington, D. C. (65). 1915. **A**

Aurness, Peter A., M. D., 1937 Park Ave., Minneapolis, Minn. (60). **K**

Austen, Mrs. Ellen Munroe, 882 Union St., Brooklyn, N. Y. (65).

Austin, Prof. Clift F., P. O. Box 7, Herradura, Cuba. (54). **G**

*Austin, F. E., Professor of Electrical Engineering, Dartmouth College, Hanover, N. H. (57). 1915. **D**

*AUSTIN, JAMES HAROLD, M. D., University of Pennsylvania, Philadelphia, Pa. (64). 1915. **K**

*Austin, Oscar Phelps, National City Bank, New York, N. Y. (51). 1907. **I**

*Avery, Samuel, Ph. D., LL. D., Director, Chemical Laboratories, and Chancellor, University of Nebraska, Lincoln, Nebr. (57). 1908. **C**

Axt, Miss Mary C., 196 Richmond Ave., Port Richmond, N. Y. (64). **F**

Ayer, Edward Everett, 1515 Railway Exchange Building, Chicago, Ill. (37). **H**

Aylmer, Arthur L., M. D., 329 Central Ave., Minneapolis, Minn. (60). **K**

*Ayres, Horace Beemer, Aitkin, Minn. (40). 1911. **E**

Ayres, Leonard Porter, Ph. D., 130 East 22d St., New York, N. Y. (63).

Ayrs, O. L., 1704 11th Ave., South, Birmingham, Ala. (66). **M**

*Babasinian, Vahan Simon, Ph. D., Associate Professor of Chemistry, Lehigh University, South Bethlehem, Pa. (57). 1910. **C**

*Babb, Maurice Jefferis, Ph. D., Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (60). 1911. **A**

Babcock, A. H., Flood Building, San Francisco, Cal. (65).

Babcock, Mrs. Albert, 126 Waterman St., Providence, R. I. (65).

Babcock, Earle Brownell, Columbia University, New York, N. Y. (58).

*Babcock, Earle Jay, Professor of Chemistry, and Dean, College of Mining Engineering, University of North Dakota, Grand Forks, N. D. (58). 1910. **C D**

*Babcock, Ernest Browne, Professor of Plant Pathology, University of California, Berkeley, Cal. (57). 1911. **G**

*Babcock, Harold D., Physicist and Assistant Astronomer, Mt. Wilson Solar Observatory, Pasadena, Cal. (62). 1915. **A B**

Babcock, John Peare, Government Building, Victoria, B. C., Can. (66).

*Babcock, Stephen Moulton, Ph. D., LL. D., Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (33). 1885. **C**

Babcock, William Wayne, M. D., 2033 Walnut St., Philadelphia, Pa. (54). **K**

*Baber, Miss Zonia, Associate Professor of Geography, College of Education, University of Chicago, Chicago, Ill. (54). 1906. **E**

Bachmann, G., M. D., Atlanta Medical College, Atlanta, Ga. (64). **K**

*Back, Ernest Adna, Ph. D., Box 153, U. S. Department of Agriculture, Honolulu, Hawaii. (58). 1913. **F**

*Backus, Cyrus Day, E. E., U. S. Patent Office, Washington, D. C. (60). 1915. **D**

*Bacon, Arthur Avery, Professor of Physics, Hobart College, Geneva, N. Y. (53). 1911. **B**

Bacon, Charles Sumner, M. D., 2156 Sedgwick St., Chicago, Ill. (58). **K**

Bacon, Prof. George Preston, 59 Perham St., West Roxbury, Mass. (58). **B**

*Bacon, Raymond Foss, Ph. D., Director, Mellon Institute of Industrial Research, University of Pittsburgh, Pittsburgh, Pa. (64). 1915. **C**

Badé, William Frederic, Ph. D., 2616 College Ave., Berkeley, Cal. (65).

Baehr, George, M. D., 51 East 96th St., New York, N. Y. (64). **K**

*Baekeland, Leo Hendrick, Sc. D., "Snug Rock," Harmony Park, Yonkers, N. Y. (57). 1908. **C**

Baerecke, John F., M. D., Ph. D., Professor of Biology, Stetson University, De Land, Fla. (50). **F K**

*Bagg, Rufus Mather, Jr., Ph. D., Professor of Geology and Mineralogy, Lawrence College, Appleton, Wis. (49). 1903. **E**

BAGGALEY, RALPH, E. M., President, Puritan Coke Co., Pittsburgh, Pa. (50). **D**

Bagley, Charles, Jr., M. D., 5 West Chase St., Baltimore, Md. (63). **K**

*Bagley, William Chandler, Ph. D., Director, School of Education, University of Illinois, Urbana, Ill. (60). 1910. **L**

Bagot, C. G. Seymour, E. E., Quathiaski Cove, B. C., Canada. (60). **D**

*Bailey, Edgar Henry Summerfield, Ph. D., Professor of Chemistry, University of Kansas, Lawrence, Kans. (25). 1889. **C K**

Bailey, Edward P., Hinsdale, N. H. (52). **E**

Bailey, Ernest Winfield, Department of Horticulture, University of Illinois, Urbana, Ill. (62). **G L M**

*Bailey, Frank H., Rear-Admiral, U. S. N., Gowanda, N. Y. (52). 1912. **D**

*Bailey, Irving W., 80 Buckingham St., Cambridge, Mass. (63). 1915. **G**

*Bailey, Liberty Hyde, LL. D., 103 Sage Place, Ithaca, N. Y. (65). 1914. **M**

*Bailey, Solon Irving, Phillips Professor of Astronomy, Harvard University, Cambridge, Mass. (50). 1901. **A**

*Bailey, Vernon, U. S. Department of Agriculture, Washington, D. C. (52). 1904. **F**

*Bain, Samuel McCutcheon, Professor of Botany, University of Tennessee, Knoxville, Tenn. (50). 1902. **G**

*Bair, Joseph Hershey, Ph. D., 4318 Sansom St., Philadelphia, Pa. (52). 1905. **H K**

Baird, Arthur C., 505 Lincoln Ave., Pittsburgh, Pa. (60). **A**

*Baird, John Wallace, Ph. D., Professor of Psychology, Clark University, Worcester, Mass. (53). 1905. **H**

Baird, William C., M. D., 1320 No. Tejon St., Colorado Springs, Colo. (60). **K**

Baker, A. W., Ontario Agricultural College, Guelph, Canada. (65). **G**

*Baker, Arthur C., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **F**

Baker, C. C., P. O. Box 621, Azusa, Cal. (65).

*Baker, Charles Fuller, Professor of Agronomy, College of Agriculture, Los Banos, P. I. (54). 1906. **F G**

*Baker, Charles Lawrence, University of Texas, Austin, Texas. (64). 1915. **E**

Baker, Clark E., Holliday's Cove, W. Va. (64).

Baker, Edward Hall, M. D., 1745 East 68th St., Grand Crossing Station, Chicago, Ill. (58). **K**

*Baker, Ezra F., Ph. D., President, Waynesburg College, Waynesburg, Pa. (57). 1915. **H**

*Baker, Frank, M. D., Ph. D., Superintendent, National Zoological Park, Washington, D. C. (31). 1886. **F G H I K L**

Baker, Frank Collins, Curator and Secretary, Chicago Academy of Sciences, Chicago, Ill. (58).

Baker, Fred., M. D., Point Loma, Cal. (65). **K**

Baker, Horace Burrington, Colorado College, Colorado Springs, Colo. (60).

*Baker, Hugh Potter, Dean, New York State College of Forestry, Syracuse, N. Y. (51). 1911. **G M**

*Baker, James Hutchins, LL. D., 980 Marion St., Denver, Colo. (50). 1903. **I**

Baker, Leonard T., University of South Carolina, Columbia, S. C. (60).

*Baker, Richard Philip, Ph. D., Assistant Professor of Mathematics, State University of Iowa, Iowa City, Iowa. (60). 1910. **A**

*Baker, Robert H., Ph. D., Assistant Professor of Astronomy, Brown University, Providence, R. I. (54). 1907. **A**

*Baker, Ross Allen, 429 Walnut St., S. E., Minneapolis, Minn. (58). 1915. **C**

*Baker, Smith, M. D., 296 Rutger St., Utica, N. Y. (54). 1911. **K**

*Bakewell, Charles Montague, Ph. D., Professor of Philosophy, Yale University, New Haven, Conn. (54). 1906. **I**

Bakke, Arthur L., Department of Botany, Iowa State College, Ames, Iowa. (62). **G**

*Balch, Alfred William, M. D., Tufts College Medical School, Boston, Mass. (52). 1911. **C K**

*Balch, Edwin Swift, 1412 Spruce St., Philadelphia, Pa. (51). 1903. **E H**

*Balch, Francis Noyes, 60 State St., Boston, Mass. (50). 1913. **F**

*Balcom, R. Wilfred, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C**

*Baldwin, Bird Thomas, Ph. D., Head, Department of Psychology and Education, Swarthmore College, Swarthmore, Pa. (58). 1910. **H L**

Baldwin, Herbert B., Analytic and Consulting Chemist, 927 Broad St., Newark, N. J. (43). **C**

Baldwin, Mark, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (66). **E**

*BALDWIN, SAMUEL PRENTISS, 2930 Prospect Ave., Cleveland, Ohio. (47). 1900. **E**

*BALDWIN, HON. SIMEON EBEN, LL. D., Professor of Law, Yale University, New Haven, Conn. (50). 1901. **I**

*Balke, Clarence William, Ph. D., Professor of Inorganic Chemistry, University of Illinois, Urbana, Ill. (58). 1911. **C**

Ball, Albert, Professor of Physics and Engineering, Cooper Union, New York, N. Y. (58). **B D**

*Ball, Carleton Roy, U. S. Department of Agriculture, Washington, D. C. (49). 1902. **G**

*Ball, Elmer Darwin, Ph. D., Professor of Zoology and Entomology, Agricultural College of Utah, Logan, Utah. (50). 1903. **F**

Ball, Miss Helen Augusta, 43 Laurel St., Worcester, Mass. (50).

*Ball, Max W., U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

*Ballard, William Salisbury, U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Balliet, Thomas M., Ph. D., Dean, New York University, New York, N. Y. (48). 1903. **H I**

Ballinger, W. N., 224 So. Maple St., Sycamore, Ill. (65).

Ballou, Frank Washington, Ph. D., Director, Department of Educational Investigation and Measurement, Public Schools, Cambridge, Mass. (66). **L**

*Ballou, Henry Arthur, Entomologist, Imperial Department of Agriculture, Barbados, B. W. I. (56). 1914. **F G**

Ballou, Willard Alger, Department of Mathematics, Pratt Institute, Brooklyn, N. Y. (66). **A**

Balta, José, E. M., Mogollon 13, Lima, Peru, S. A. (60). **D**

BALTZELL, WILLIAM HEWSON, Wellesley, Mass. (60).

Balz, Albert George Adam, Adjunct Professor of Philosophy, University of Virginia, Charlottesville, Va. (66). **H**

*Bancroft, Frank Watts, Ph. D., Aloha Farm, R. D., Box 81, Concord, Cal. (50). 1907. **F K**

*Bancroft, J. Sellers, M. E., 917 Pine St., Philadelphia, Pa. (51). 1915. **D**

*Bancroft, Miss Jessie Hubbell, Assistant Director of Physical Training, Department of Educat[illegible] New York, N Y. (58). 1915. **L**

*Bangs, Outram, Museum of Comparative Zoology, Cambridge, Mass. (47). 1900. F

*Banker, Howard James, Ph. D., 21 Ellery St., Cambridge, Mass. (51). 1905. G

*Banks, Charles S., Professor of Entomology and Zoology, College of Agriculture, University of the Philippines, Los Banos, P. I. (57). 1914. F

Banks, John Edwin, C. E., American Bridge Co., Ambridge, Pa. (60). D

Banks, Noah Anthony, Ph. D., Head, Department of Mathematics, Prairie View State Normal and Industrial College, Prairie View, Texas. (64). A

*Banta, Arthur Mangun, Ph. D., Bryan, Ohio. (53). 1913. F

*Banzhaf, Edwin J., Research Laboratory, East 16th St., New York, N. Y. (60). 1915. C K

Barber, George W., U. S. Entomological Laboratory, Charleston, Mo. (66). F

*Barber, Herbert Spencer, U. S. National Museum, Washington, D. C. (58). 1914. F

*Barber, Thomas C., Delta Laboratory, Tallulah, La. (58). 1915. F

*Barbour, Miss Carrie Adeline, Department of Geology, University of Nebraska, Lincoln, Nebr. (53). 1915. E

*Barbour, Erwin Hinckley, Ph. D., Professor of Geology, University of Nebraska, Lincoln, Nebr. (45). 1898. E

*Barbour, Thomas, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (52). 1907. F

Barck, Carl, M. D., 2715 Locust St., St. Louis, Mo. (52). K

*Bardeen, Charles Russell, M. D., Professor of Anatomy, University of Wisconsin, Madison, Wis. (50). 1901. F K

*Bardwell, Fred Leslie, Assistant Professor of Chemistry, Case School of Applied Science, Cleveland, Ohio. (60). 1910. C

Barger, Thomas Morse, 2650 South 60th Ave., Cicero, Ill. (58).

*Barkan, Adolph, M. D., LL.D., 43 Widenmayer St., Munich, Bavaria. (51). 1909. K

Barkan, Hans, 240 Stockton St., San Francisco, Cal. (66).

Barker, Elmer Eugene, Ph. D., Assistant Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (65). G

*Barker, Franklin Davis, Ph. D., Associate Professor of Zoology, University of Nebraska, Lincoln, Neb. (62). 1913. F

Barker, Franklin Luther, Professor of Geography, University of Oregon, Eugene, Oregon. (63). E

*Barker, Lewellys Franklin, M. D., Professor of Medicine, Johns Hopkins University, Baltimore, Md. (57). 1908. K

Barlow, John, Professor of Zoology, Rhode Island State College, Kingston, R. I. (51). F

*Barlow, William Edward, Ph. D., Virginia Polytechnic Institute, Blacksburg, Va. (60). 1911. C

*BARNARD, EDWARD EMERSON, Sc. D., LL. D., Director, Yerkes Observatory, Williams Bay, Wis. (26). 1883. **A**

Barnes, Carl Lewis, M. D., 1977 Ogden Ave., Chicago, Ill. (58). **K**

Barnes, Cecil, 1153 No. Dearborn St., Chicago, Ill. (57). **E**

Barnes, Edward W., P. O. Box 446, New York, N. Y. (49).

Barnes, Francis Merriman, Jr., M. D., Associate in Psychiatry, Washington University, St. Louis, Mo. (61). **K**

*Barnes, Fred Asa, Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. (56). 1912. **D**

*Barnes, Howard Turner, Sc. D., Ph. D., Professor of Physics, McGill University, Montreal, Canada. (57). 1909. **B**

Barnes, Jasper Converse, Maryville College, Maryville, Tenn. (65). **H**

*Barnes, William, M. D., Decatur, Ill. (57). 1915. **K**

Barnett, Edwin S., Mount Alverno, Pa. (64).

*Barnett, Samuel Jackson, Ph. D., Professor of Physics, Ohio State University, Columbus, Ohio. (58). 1910. **B**

Barnett, Victor H., U. S. Geological Survey, Washington, D. C. (62). **E**

*Barney, Ida, Ph. D., Department of Mathematics, Smith College, Northampton, Mass. (63). 1915. **A**

Barnhart, Jesse M., 707 W. Illinois St., Urbana, Ill. (60). **C**

*BARNHART, JOHN HENDLEY, M. D., New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1903. **G K**

*Barnum, Charlotte Cynthia, Ph. D., 344 Humphrey St., New Haven, Conn. (36). 1896. **A I**

Barnum, William Milo, 10 Wall St., New York, N. Y. (57).

*Barr, John Henry, M. E., Remington Typewriter Co., 293 Broadway, New York, N. Y. (51). 1903. **D**

*Barre, Henry Walter, Associate Professor of Botany and Bacteriology, Clemson Agricultural College, Clemson College, S. C. (58). 1911. **G**

*Barrell, Joseph, Ph. D., Professor of Structural Geology, Yale University, New Haven, Conn. (51). 1905. **E**

Barrett, Daisy Adelaide, Department of Education, Chattanooga, Tenn. (66). **L**

*Barrett, James Theophilus, Ph. D., Professor of Plant Pathology, Graduate School of Tropical Agriculture, Riverside, Cal. (58). 1913. **G**

Barrett, Mary Franklin, 19 Elm St., Bloomfield, N. J. (66).

*Barrett, Otis Warren, Chief, Division of Experiment Stations, Bureau of Agriculture, Manila, P. I. (58). 1914. **E F G H K**

*Barrett, Samuel Alfred, Ph. D., Curator, Public Museum, Milwaukee, Wis. (58). 1910. **H**

*Barrett, Storrs Barrows, Secretary, Yerkes Observatory, Williams Bay, Wis. (58). 1913. **A**

Barrett, W. E., Glen Olden, Pa. (60). **A**

*Barrie, George, M. D., 601 West 110th St., New York, N. Y. (49). 1913. **H I**

*Barringer, Daniel Moreau, E. M., 370 Bullitt Building, Philadelphia, Pa. (50). 1911. **D E**

Barrington, Richard L., M. D., 210 Old Custom House, St. Louis, Mo. (60). K

Barroll, Mrs. Henry Edwards, M. D., 911 Elm St., Winnetka, Ill. (58). C K

Barron, George D., E. M., P. O. Box 596, Rye, N. Y. (57). D

Barrow, Bernard, M. D., Barrow's Store, Va. (60). K

*Barrows, Albert Lloyd, Department of Geology, University of California, Berkeley, Cal. (63). 1915. E

Barrows, Anna, 98 Gainsborough St., Boston, Mass. (65).

*Barrows, Walter Bradford, Professor of Zoology and Physiology, Michigan Agricultural College, East Lansing, Mich. (40). 1897. F K

Barrows, Walter Loring, Department of Geology, Trinity College, Hartford, Conn. (63). E

*Barrows, William Morton, Assistant Professor of Zoology, Ohio State University, Columbus, Ohio. (57). 1911. F

*Barss, Howard Phillips, Assistant Professor of Plant Pathology, Oregon State Agricultural College, Corvallis, Oregon. (61). 1915. G

*Barry, Frederick, Ph. D., Havemeyer Hall, Columbia University, New York, N. Y. (64). 1915. C

Barth, Carl G., M. E., 6151 Columbia Ave., Philadelphia, Pa. (60). D

Bartholomew, C. Edgar, 826 Grand Ave., Ames, Iowa. (54). F

Bartholomew, Elam, Stockton, Kansas. (64).

*Bartholomew, Elbert T., Biology Building, University of Wisconsin, Madison, Wis. (63). 1913. F

*Bartlett, Edwin Julius, M. D., Professor of Chemistry, Dartmouth College, Hanover, N. H. (28). 1883. C

*Bartlett, Harley Harris, Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (61). 1915. G

Bartlett, Henry Emmett, C. E., 1447 East 66th Place, Chicago, Ill. (65). D

Bartlett, John Pomeroy, Equitable Building, 120 Broadway, New York, N. Y. (57).

Bartlett, Murray, President Emeritus, University of the Philippines, Manila, P. I. (62). L

*Bartley, Elias Hudson, M. D., 65 South Portland Ave., Brooklyn, N. Y. (33). 1894. C K

Bartley, William M., M. D., Sheyenne, N. D. (60). K

Bartol, George, M. E., President, Otis Steel Co., Ltd., Cleveland, Ohio. (63). D

Bartol, John W., 1 Chestnut St., Boston, Mass. (60).

Barton, Donald Clinton, Ph. D., Washington University, St. Louis, Mo. (63). E

*Barton, George Estes, 227 Pine St., Millville, N. J. (46). 1898. C

*Barton, George Hunt, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (47). 1900. E G

Barton, Philip Price, E. E., Vice-President and General Manager, Niagara Falls Power Co., Niagara Falls, N. Y. (50). **B D E H**

*Barton. Ralph M., Professor of Mathematics, Lombard College, Galesburg, Ill. (64). 1915. **A**

*Barton, Samuel Goodwin, Ph. D., Assistant Professor of Astronomy, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **A**

*Barton, Samuel Marx, Ph. D., Professor of Pure Mathematics, University of the South, Sewanee, Tenn. (43). 1899. **A D**

*Bartow, Edward, Ph. D., Professor of Sanitary Chemistry, University of Illinois, Urbana, Ill. (47). 1906. **C**

*Bartsch, Paul, Ph. D., Curator of Conchology, Smithsonian Institution, Washington, D. C. (52). 1906. **F**

Baruch, Edgar, 805–806 Callender Building, Los Angeles, Cal. (56). **C D**

*Barus, Carl, Ph. D., LL. D., Professor of Physics, Brown University, Providence, R. I. (33). 1887. **B**

Barwell, John William, 326 Julian St., Waukegan, Ill. (47). **I L**

*Bascom, Florence, Ph. D., Professor of Geology, Bryn Mawr College, Bryn Mawr, Pa. (42). 1897. **E**

*Base, Daniel, Ph. D., 329 North Schroeder St., Baltimore, Md. (60). 1911. **C**

*Bashore, Harvey Brown, M. D., West Fairview, Pa. (46). 1911. **E K**

*Baskerville, Charles, Ph. D., Professor of Chemistry, College of the City of New York, New York, N. Y. (41). 1894. **C E**

Basset, Gardner Cheney, Ph. D., Carnegie Institution, Cold Spring Harbor, N. Y. (60). **F**

Bassett, Carroll Phillips, Ph. D., Civil and Consulting Engineer, Summit, N. J. (51). **B D I**

*Bassett, William H., Cheshire, Conn. (57). 1909. **C**

Bassler, Harvey, Ph. D., 1421 McCulloh St., Baltimore, Md. (61). **E F**

*Bassler, Ray Smith, Ph. D., U. S. National Museum, Washington, D. C. (60). 1911. **E**

*Bassoe, Peter, M. D., 1022 Maple Ave., Evanston, Ill. (58). 1911. **H K**

Baston, George Henry, Bureau of Plant Industry, U. S. Dept. of Agriculture, Washington, D. C. (65). **C M**

*Batchelder, Charles Foster, 7 Kirkland St., Cambridge, Mass. (54). 1907.

Batchelor, Leon Dexter, Ph. D., Associate Professor of Plant Breeding, Citrus Experiment Station, Riverside Cal. (64). **G**

Bateman, George Frederick, E. E., Cooper Union, New York, N. Y. (60). **D**

*Bates, Clinton Owen, Ph. D., Professor of Chemistry, Coe College, Cedar Rapids, Iowa. (58). 1911. **C**

Bates, Henry H., Ph. D., The Revere, 1201 M St. N. W., Washington, D. C. (52). **A B D**

*Bates, Rev. John Mallery, Red Cloud, Nebr. (51). 1903. **F G H L**

*Bates, P. H., U. S. Bureau of Standards, Pittsburgh, Pa. (60). 1914. **C E**

*Battle, Herbert Bemerton, Ph. D., President, The Battle Laboratory, 103 South Court St., Montgomery, Ala. (58). 1910. **C**

Bauer, George W., 660 Sacramento St., San Francisco, Cal. (60). **C**

*Bauer, Louis A., C. E., Ph. D., Sc. D., Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C. (40). 1892. **A B E L**

Bauer, Oswald A., Sparkill, N. Y. (64).

*Bauer, William Charles, E. E., Sc. D., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. (58). 1910. **A B C D**

Baugh, Margaret L., 27 West 67th St., New York, N. Y. (57).

Baumberger, J. Percy, Bussey Institution, Forest Hills, Boston, Mass. (65).

Baumberger, James, 791 Buena Vista Avenue, San Francisco, Cal. (65).

*Baumgartner, William Jacob, Ph. D., Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (58). 1911. **F**

*Bausch, Edward, P. O. Drawer 1033, Rochester, N. Y. (26). 1883. **A B C F**

*Bawden, H. Heath, Ph. D., San Ysidro, Cal. (51). 1905. **F H**

*Baxter, Gregory Paul, Ph. D., Assistant Professor of Chemistry, Harvard University, Cambridge, Mass. (54). 1906. **C**

*Bayley, William Shirley, Ph. D., Professor of Geology, University of Illinois, Urbana, Ill. (53). 1905. **E**

Bayliss, James, 1 Spring St., Taunton, Mass. (65).

Bazet, Louis, M. D., 844 Phelan Building, San Francisco, Cal. (65). **K**

Beach, Charles Coffing, M. D., 54 Woodland St., Hartford, Conn. (50). **F K**

Beal, George Safford, C. E., 3018 No. 2d St., Harrisburg, Pa. (60). **D**

Beal, Walter Henry, Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (52). **C M**

*Beal, William James, Ph. D., Sc. D., 40 Sunset Ave., Amherst, Mass. (17). 1880. **G**

Beal, William Otis, Assistant Astronomer, University of Minnesota, Minneapolis, Minn. (60). **A**

Beals, Edward Alden, care Weather Office, Portland, Oregon. (62).

Beaman, George Herbert, 2232 Massachusetts Ave. N. W., Washington, D. C. (52). **I**

Bean, A. M., Pacific University, Forest Grove, Ore. (66).

Bean, Dr. C. Homer, 408 West 124th St., New York, N. Y. (64).

Bean, Charles D., LL.D., 9 Masonic Temple, Geneva, N. Y. (65).

*Bean, Robert Bennett, M. D., Professor of Anatomy, Medical School, Tulane University, New Orleans, La. (58). 1911. **F H K**

Bear, Firman E., Assistant Professor of Agricultural Chemistry, Agricultural Experiment Station, Morgantown, W. Va. (66). **C M**

*Beard, James Thom, E. M., Associate Editor, *Coal Age*, 369 Waverly Ave., Brooklyn, N. Y. (58). 1912. **B C D L**

Beard, Stanley D., Lederle Antitoxin Laboratories, Pearl River, N. Y. (63). **F**

*Beardsley, Arthur Eugene, Professor of Biology, Colorado State Teachers College, Greeley, Colo. (50). 1901. F

Beardsley, G. F., Carmel, Cal. (65).

*Beates, Henry, Jr., M. D., Sc. D., 260 South 16th St., Philadelphia, Pa. (51). 1909. K

Beattie, Frederick Steere, Professor of Chemistry, Lehigh University, South Bethlehem, Pa. (57). C

*Beattie, R. Kent., 2518 17th St., Washington, D. C. (63). 1915. G

Beaulieu, Germain, Room 203, New York Life Building, Montreal, Canada. (58). F

Beazley, Capt. Arthur Tetley, E. E., 20th (service) Batt., K. L. R., Prescot, Lancashire, England. (60). D

Bebb, Edward Crosby, C. E., U. S. Reclamation Service, Glendive, Montana. (52). E

Bebb, William, Dental Department, University of Southern California, Los Angeles, Cal. (60). K

Beck, Emil G., M. D., 2632 Lake View Ave., Chicago, Ill. (58). K

Beck, Matthias A., M. E., 294 Greenbush St., Milwaukee, Wis. (60). D

Beck, William H., 1403 H St., N. W., Washington, D. C. (62).

Becker, Emil Arthur, 31 Irving Place, Buffalo, N. Y. (65).

*Becker, George Ferdinand, Ph. D., U. S. Geological Survey, Washington, D. C. (36). 1890. E

Becker, Irwin A., care Michael Reese Hospital, 29th St. and Groveland Ave., Chicago, Ill. (58). C E G K

Becknell, Guy Gaillard, Northwestern University, Evanston, Ill. (58). B

*Beckwith, Angie M., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). 1915. G

Beckwith, Cora Jipson, Associate Professor of Zoology, Vassar College, Poughkeepsie, N. Y. (65). F

BECKWITH, EDWARD P., Garrison, N. Y. (63).

Beckwith, George Sherman, 1113 Williamson Building, Cleveland, Ohio. (63).

*Beckwith, Theodore Day, Head, Department of Bacteriology, Oregon State Agricultural College, Corvallis, Oregon. (57). 1911. F G K

*Bedell, Frederick, Ph. D., Professor of Applied Electricity, Cornell University, Ithaca, N. Y. (41). 1894. A B

*Bedford, M. Hume, Ph. D., Paris, Ky. (58). 1910. C

*Beebe, Charles William, Curator of Ornithology, New York Zoological Park, New York, N. Y. (53). 1905. F

*Beebe, Silas Palmer, M. D., Ph. D., Physiological Chemist to the Huntington Fund for Cancer Research, 216 Central Ave., Flushing, N. Y. (54). 1906. K

*Beede, Joshua William, Ph. D., Associate Professor of Geology, Indiana University, Bloomington, Ind. (50). 1906. E

Beekman, Gerard, 48 West 74th St., New York, N. Y. (49).

*Beer, Edwin, M. D., 48 West 74th St., New York, N. Y. (56). 1908. K

Beer, James Anderson, M. D., Health Office, City Hall, Columbus, Ohio. (58). **C K**

Beers, Everett Jacob, Principal, Oak Grove Seminary and Bailey Institute, Vassalboro, Me. (57). **B C**

Beers, William Herbert, Chemist and Bacteriologist, 1524 Henderson St., Columbia, S. C. (58). **C F G H K**

*Beeson, Jasper Luther, Ph. D., Professor of Chemistry and Physics, Georgia Normal and Industrial College, Milledgeville, Ga. (57). 1909. **B C**

Begeman, Louis, Ph. D., Department of Physics, Iowa State Teachers College, Cedar Falls, Iowa. (62). **B**

Begg, Alexander S., M. D., Harvard Medical School, Boston, Mass. (64). **K**

Bégin, L'abbé P. A., Professor of Physics and Chemistry, Seminaire Saint Charles Borromée, Sherbrook, Quebec, Canada. (58). **B C**

Behlow, W. W., M. D., 233 Post St., San Francisco, Cal. (66). **K**

Behr, Edward, C. E., 838 Carroll St., Brooklyn, N. Y. (57). **D H L**

Behr, Gustavus E., Jr., 605 3d St., Brooklyn, N. Y. (58). **C**

Behre, Elinor H., Newcomb College, New Orleans, La. (65). **F**

*Behrend, Bernard Arthur, C. E., E. E., 200 Devonshire St., Boston, Mass. (50). 1903. **A B D I L**

*Beinhart, Ernest G., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **G**

Belcher, Prof. Burton, Principal, Gadsden County High School, Quincy, Fla. (63). **L**

Belden, Henry Marvin, Ph. D., Professor of English, College of Agriculture, Columbia, Mo. (64). **L**

Belknap, Henry Wyckoff, 31 Warren St., Salem, Mass. (57).

*Bell, Albert Thomas, Professor of Botany, Louisiana State University, Baton Rouge, La. (52). 1903. **G**

*Bell, Alexander Graham, M. D., Sc. D., Ph. D., LL. D., 1331 Connecticut Ave. N. W., Washington, D. C. (26). 1879. **B H I**

Bell, C. M., M. D., 320 Fifth Ave., New York, N. Y. (36). **K**

Bell, Charles J., President, American Security and Trust Co., Washington, D. C. (63).

*Bell, E. T., Department of Mathematics, University of Washington, Seattle, Wash. (65). 1915. **A**

Bell, J. Finley, M. D., Englewood, N. J. (57). **K**

*Bell, James Carleton, Ph. D., University of Texas, Austin, Texas. (58). 1910. **F H L**

Bell, James Ford, 2215 Park Ave., Minneapolis, Minn. (65).

*Bell, James Munsie, Ph. D., Professor of Physical Chemistry, University of North Carolina, Chapel Hill, N. C. (58). 1909. **B C**

*Bell, John Everett, M. E., 133 8th Ave., Brooklyn, N. Y. (53). 1906. **D**

Bell, Miss Laura, 1428 Spruce St., Philadelphia, Pa. (64).

*Bell, Robert, M. D., Sc. D., LL. D., 136 Maclaren St., Ottawa, Canada. (38). 1889. **E F K**

Bell, William Bonar, Ph. D., Professor of Zoology and Physiology, North Dakota Agricultural College, Agricultural College, N. D. (56). **F K**

Beller, William Frank, New York Custom House, 51 East 123d St., New York, N. Y. (56). **F H I**

Belling, John, Agricultural Experiment Station, Gainesville, Fla. (58). **G**

*Belmont, August, 43 Exchange Place, New York, N. Y. (50). 1906. **I**

BELMONT, HON. PERRY, 580 Fifth Ave., New York, N. Y. (57).

*Beman, Wooster Woodruff, LL. D., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (34). 1886. **A**

Bement, Alburto, E. M., 29 South La Salle St., Chicago, Ill. (52). **B C D E**

Benecke, Adelbert Oswald, E. E., 46 West Cottage St., Boston, Mass. (58). **D**

*Benedict, Francis Gano, Ph. D., Director, Nutrition Laboratory, Carnegie Institution of Washington, Boston, Mass. (55). 1908. **C K**

Benedict, Harris Miller, Assistant Professor of Biology, University of Cincinnati, Cincinnati, Ohio. (52). **F G**

*Benedict, Harry Yandell, Ph. D., Professor of Applied Mathematics, University of Texas, Austin, Tex. (58). 1911. **A D**

*Benedict, Ralph Curtis, 2303 Newkirk Ave., Brooklyn, N. Y. (60). 1911. **G**

Benedict, William de L., E. M., 19 Cedar St., New York, N. Y. (57). **D**

Bengston, Rev. Carl J., 4502 9th Ave., Rock Island, Ill. (58). **H**

*BENJAMIN, MARCUS, Sc. D., Ph. D., LL. D., U. S. National Museum, Washington, D. C. (27). 1887. **C I**

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Benner, Winthrop W., P. O. Box 540, Port Arthur, Ontario, Canada. (60). **C**

*Benneson, Miss Cora Agnes, 3 Phillips Place, Cambridge, Mass. (47). 1899. **H I**

*Bennett, Alfred Allen, Professor of Chemistry, Iowa State College, Ames, Iowa. (54). 1906. **C**

Bennett, Charles Wilkes, Coldwater, Mich. (50). **E F G**

Bennett, Henry C., Hotel Longacre, 157 West 47th St., New York, N. Y. (43).

Bennett, James Percy, Department of Botany, University of Wisconsin, Madison, Wis. (65). **G**

Bennett, John N., Professor of Mathematics, Doane College, Crete, Nebr. (57). **A**

Bennett, Lee F., Professor of Zoology and Geology, Valparaiso University, Valparaiso, Ind. (58). **E F**

Bennett, Robert H., 444 Market St., San Francisco, Cal. (65).

*Bennett, William Zebina, Ph. D., Director, Chemical Laboratory, College of Wooster, Wooster, Ohio. (48). 1903. C

Bennion, Milton, Professor of Philosophy, University of Utah, Salt Lake City, Utah. (60). L

*Bensley, Benjamin Arthur, Ph. D., Associate Professor of Zoology, University of Toronto, Toronto, Canada. (58). 1910. F K

*Bensley, Robert Russell, Professor of Anatomy, University of Chicago, Chicago, Ill. (60). 1911. K

Benson, R. Dale, Jr., 1120 Spruce St., Philadelphia, Pa. (65).

*Bentley, Gordon Mansir, Assistant Professor of Entomology, University of Tennessee, Knoxville, Tenn. (54). 1914. F

*Bentley, Madison, Ph. D., Professor of Psychology, University of Illinois, Urbana, Ill. (54). 1906. H K

*Bentley, William Burdelle, Ph. D., Professor of Chemistry, Ohio University, Athens, Ohio. (51). 1903. C

Bentley, Wilson Alwyn, Jericho, Vt. (48). B

Benton, Frank, P. O. Box 17, Washington, D. C. (54). F

*Benton, John Robert, Ph. D., Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. (51). 1906. B D

*Benzenberg, George Henry, C. E., Sc. D., 1310 Wells Building, Milwaukee, Wis. (58). 1911. D

*Berg, Ernst Julius, E. E., Sc. D., Professor of Electrical Engineering, Union College, Schenectady, N. Y. (63). 1915. D

*Berg, William Nathan, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (55). 1911. C K

Bergeim, Olaf, Jefferson Medical College, Philadelphia, Pa. (65). C K

*Bergen, Joseph Young, 47 Raymond St., North Cambridge, Mass. (57). 1909. G

Bergen, Van Brunt, C. E., Shore Road and 77th St., Brooklyn, N. Y. (54). C I

*Berger, Edward William, Ph. D., Florida Agricultural Experiment Station, Gainesville, Fla. (57). 1914. F

*Bergey, David Hendricks, M. D., Assistant Professor of Bacteriology, University of Pennsylvania, Philadelphia, Pa. (48). 1903. K

Berghausen, Dr. E. J., 3427 Evans Place, Clifton, Cincinnati, Ohio. (58). C

Bergin, Rev. Alfred, Ph. D., Lindsborg, Kans. (60). H

Bergland, Major Eric, P. O. Box 30, Baltimore, Md. (60).

Bergman, Herbert Floyd, Assistant Professor of Botany, University of Minnesota, Minneapolis, Minn. (60). G

Bergmen, F. G. A. H., 3700 California St., San Francisco, Cal. (65).

*Berkey, Charles Peter, Ph. D., Associate Professor of Geology, Columbia University, New York, N. Y. (50). 1905. E

Berlenbach, Philip H., M. D., 9 Stuyvesant Ave., Brooklyn, N. Y. (60). K

Berlin, Henry, M. D., 110 McCallie Ave., Chattanooga, Tenn. (58). **K**
Bernheimer, Charles L., 120 Franklin St., New York, N. Y. (49).
Bernstein, B. A., 2131 Haste St., Berkeley, Cal. (65).
*Berolzheimer, Daniel Deronda, The Chemists Club, 52 East 41st St., New York, N. Y. (55). 1911. **C H**
Berry, Charles Scott, Ph. D., Assistant Professor of Psychology, University of Michigan, Ann Arbor, Mich. (63). **H**
Berry, Daniel, M. D., Carmi, Ill. (41). **B C E**
*Berry, Edward Wilber, Johns Hopkins University, Baltimore, Md. (50). 1905. **E G**
Berry, James Bert, Professor of Forestry, State Forest School, Athens, Ga. (63). **G M**
Berry, John Wilson, C. E., Pittston, Pa. (47). **D**
Berry, Josephine Thorndike, Chief, Division of Home Economics, Dept. of Agriculture, University Farm, St. Paul, Minn. (65).
*Berry, S. Stillman, Ph. D., 745 West Highland Ave., Redlands, Cal. (61). 1915. **F**
*Berry, William Johnston, Assistant Professor of Mathematics, Polytechnic Institute, Brooklyn, N. Y. (62). 1915. **A**
Berwick, Edward, 343 Ocean View Ave., Pacific Grove, Cal. (65).
Besley, F. W., State Forester, Johns Hopkins University, Baltimore, Md. (66). **M**
*Bessey, Ernst Athearn, Ph. D., Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (49). 1901. **G**
*Best, George Newton, M. D., Rosemont, N. J. (54). 1911. **G K**
*Bethune, Charles James Stewart, Professor of Entomology, Ontario Agricultural College, Guelph, Ontario, Canada. (18). 1875. **F**
Betten, Cornelius, Ph. D., Secretary, N. Y. State College of Agriculture, Ithaca, N. Y. (56). **F M**
*Betts, Anson Gardner, E. M., Troy, N. Y. (60). 1911. **C D**
Betts, Charles Henry, 29 Holly St., Lyons, N. Y. (65).
*Betts, George Herbert, Ph. D., Professor of Psychology and Education, Cornell College, Mt. Vernon, Iowa. (63). 1914. **H L**
Betts, Samuel Rossiter, Kuhn-Loeb Building, 52 William St., New York, N. Y. (57). **D L**
Beubler, George O. H., 1206 West 11th St., Los Angeles, Cal. (58). **C**
*Beutenmüller, William, 879 Whitlock Ave., New York, N. Y. (57). 1914. **F G I L**
*Bevan, Arthur Dean, M. D., Professor of Surgery, Rush Medical College, Chicago, Ill. (58). 1909. **K**
Bevier, George, Jr., 702 Alice Ave., Spokane, Wash. (55). **D**
*Bevier, Isabel, Professor of Household Science, University of Illinois, Urbana, Ill. (46). 1909. **C**
*Beyer, George Eugene, Professor of Biology, Tulane University, New Orleans, La. (54). 1906. **F G**

Beyer, J. Walter, M. D., 401 Eastern Ave., Aspinwall, Pa. (60). **K**

*Beyer, Samuel Walker, Ph. D., Professor of Geology and Mining Engineering, Iowa State College, Ames, Iowa. (47). 1900. **D E**

*Bibbins, Arthur Barneveld, Curator and Instructor in Geology and Mineralogy, Goucher College, Baltimore, Md. (54). 1906. **E**

*Bicknell, Eugene Pintard, 30 Pine St., New York, N. Y. (64). 1915. **G**

*Biddle, Henry Chalmers, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (60). 1910. **C**

Biddle, James G., 1211 Arch St., Philadelphia, Pa. (33). **B**

Biddle, Miss M. Georgina, Pembroke West, Bryn Mawr, Pa. (65).

BIDDLE, THOMAS, M. D., 1301 Walnut St., Philadelphia, Pa. (65). **K**

Bidwell, C. C., Ph. D., 503 Dryden Road, Ithaca, N. Y. (66). **B**

Bidwell, George L., 1225 S St. N. W., Washington, D. C. (60). **C**

Bienenfeld, Bernard, 525 Rialto Building, San Francisco, Cal. (65).

Bierbaum, Christopher Henry, M. E., Consulting Engineer, 931 Marine Bank Building, Buffalo, N. Y. (53). **D**

Biester, Miss Alice, Purdue University, La Fayette, Ind. (66). **I**

*Bigelow, Frank Hagar, Professor of Meteorology, Oficina Meteorologica, Cordoba, Argentina, S. A. (36). 1888. **A B**

Bigelow, Harold E., Ph. D., 66 Oriole Ave., Providence, R. I. (63).

*Bigelow, Harriet W., Ph. D., Professor of Astronomy, Smith College, Northampton, Mass. (57). 1909. **A**

*Bigelow, Henry Bryant, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (52). 1909. **F**

*Bigelow, Maurice Alpheus, Ph. D., Professor of Biology, Teachers College, Columbia University, New York, N. Y. (51). 1903. **F L**

*Bigelow, Robert Payne, Ph. D., Professor of Zoology, Massachusetts Institute of Technology, Boston, Mass. (51). 1903. **F**

*Bigelow, Samuel Lawrence, Ph. D., Professor of General Chemistry, University of Michigan, Ann Arbor, Mich. (51). 1903. **C**

*Bigelow, Willard Dell, Research Laboratories, National Canners Association, Washington, D. C. (53). 1906. **C**

Bigelow, William Sturgis, M. D., 56 Beacon St., Boston, Mass. (57). **K**

*Biggs, Hermann Michael, M. D., LL. D., Commissioner of Health, 113 West 57th St., New York, N. Y. (60). 1914. **K**

Bigney, Andrew Johnson, Professor of Biology and Geology, Moores Hill College, Moores Hill, Ind. (50). **E F**

Bijur, Moses, Hotel Ansonia, New York, N. Y. (57). **C D E**

Bikle, Charles Earle, Head, Department of Mathematics, Central High School, Syracuse, N. Y. (60). **A**

*Billings, Frank, M. D., 242 East Walton Place, Chicago, Ill. (58). 1909. **H K L**

Billings, Hanna Louisa, Hatfield, Mass. (66). **B**

Billingsley, Paul, 1025 West Broadway, Butte, Mont. (61). **F**

*Binford, Raymond, Ph. D., 226 College Ave., Richmond, Ind. (64). 1915. F

*Bingham, Hiram, Ph. D., Professor of Latin-American History, Yale University, New Haven, Conn. (58). 1911. I

*Bingham, Walter VanDyke, Ph. D., Professor of Psychology, Carnegie Institute of Technology, Pittsburgh, Pa. (60). 1911. H

*Bioletti, Frederic Theodore, Professor of Viticulture, University of California, Berkeley, Cal. (62). 1915. G

Birchett, J. G., M. D., Cardwell, Mo. (58). K

BIRD, CHARLES SUMNER, JR., East Walpole, Mass. (60).

*Bird, Henry, Rye, N. Y. (55). 1914. F

*Bird, Robert Montgomery, Ph. D., Professor of Chemistry, University of Virginia, Charlottesville, Va. (57). 1909. C

*Birge, Edward Asahel, Sc. D., Ph. D., LL. D., Dean, College of Letters and Science, University of Wisconsin, Madison, Wis. (53). 1905. F

Birkhahn, George D., Department of Soils and Crops, Baron de Hirsch Agricultural School, Woodbine, N. J. (66). G

*Birkhoff, George David, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (61). 1911. A

Birnie, Clotworthy, M. D., Taneytown, Md. (60). K

BIRNIE, COLONEL ROGERS, U. S. A., Ordnance Office, War Department, Washington, D. C. (62). D

*Bishop, Frederic Lendall, Ph. D., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. (62). 1915. B

*Bishop, Howard Berkey, 1372 Union St., Brooklyn, N. Y. (56). 1908. C

Bishop, Mrs. Josephine Hall, care Thomas B. Bishop Co., Whittell Building, San Francisco, Cal. (51). H

*Bishop, Louis Bennett, M. D., 356 Orange St., New Haven, Conn. (50). 1906. I K

*Bishop, Louis Faugeres, M. D., 54 West 55th St., New York, N. Y. (60). 1911. K

*Bishopp, Fred Corry, P. O. Box 208, Dallas, Texas. (54). 1913. F

*Bissell, George Welton, Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. (53). 1905. D

*Bissing, William F., E. E., 2 Rector St., New York, N. Y. (55). 1909. B D H I

Bitner, Henry F., Ph. D., Center Hall, Pa. (52). B C G

*Bitting, Katherine Golden, Block 12, Palace of Horticulture, San Francisco, Cal. (42). 1897. G

*BIXBY, GEN. WILLIAM HERBERT, Chief of Engineers, Retired, U. S. A., 735 Southern Building, Washington, D. C. (34). 1892. D

*Bizzell, William Bennett, President, College of Industrial Arts, Denton, Texas. (62). 1915. I

Bjorge, Oscar Bernard, 623 10th Ave., East, Duluth, Minn. (64).
Black, Alexander, Fort Defiance, Ariz. (60). H
Black, Carl E., M. D., Jacksonville, Ill. (60). K
*Black, Newton Henry, Roxbury Latin School, Boston, Mass. (50). 1911. B C
*Black, Otis Fisher, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1914. C
Black, Robert A., M. D., Virginia Hot Springs, Va. (60). K
*Black, Roger D., Captain, Corps of Engineers, U. S. A., Manila, P. I. (60). 1915. D
*Blackiston, A. H., 149 California St., San Francisco, Cal. (60). 1913.
*Blackman, Maulsby Willett, Ph. D., Associate Professor of Zoology, New York State College of Forestry, Syracuse, N. Y. (64). 1915. F
BLACKMORE, HENRY SPENCER, 206 South 9th Ave., Mount Vernon, N. Y. (49). C
*Blackshear, Edward Levoisier, Principal, Prairie View State Normal and Industrial College, Prairie View, Tex. (52). 1907. H I L
*Blackwelder, Eliot, Professor of Geology, University of Wisconsin, Madison, Wis. (55). 1908. E F
Blackwood, Alexander Leslie, M. D., 9151 Commercial Ave., Chicago, Ill. (58). K
*Blain, Alexander Willis, M. D., 1105 Jefferson Ave., East, Detroit, Mich. (52). 1906. F K
Blaine, Anita McCormick, 101 East Erie St., Chicago, Ill. (58).
Blair, A. W., 202 Lawrence Ave., New Brunswick, N. J. (58). C
*Blair, Andrew Alexander, 406 Locust St., Philadelphia, Pa. (44). 1896. C
*Blair, Joseph Cullen, Professor of Horticulture, University of Illinois, Urbana, Ill. (63). 1915. G
Blair, R. Eugene, U. S. Experiment Farm, Bard, Cal. (63). G
*Blaisdell, Frank Ellsworth, M. D., 1520 Lake St., San Francisco, Cal. (60). 1915. F K
Blaisdell, James Arnold, D. D., President, Pomona College, Claremont, Cal. (65). L
Blaise, T. T., Mason City, Iowa. (58).
*Blake, Clarence John, M. D., 226 Marlborough St., Boston, Mass. (24). 1877. B F K
*Blake, Frederic Columbus, Ph. D., Professor of Physics, Ohio State University, Columbus, Ohio. (60). 1909. B
Blake, Irving Hill, care A. M. Kincaid, 109 Sawyer St., South Portland, Maine. (65).
*Blake, Maurice Adin, Associate Professor of Horticulture, New Jersey Agricultural Experiment Station, New Brunswick, N. J. (63). 1915. G

*Blaker, Ernest, Ph. D., Assistant Professor of Physics, Cornell University, Ithaca, N. Y. (51). 1907. **B**

*Blakeslee, Albert Francis, Ph. D., Cold Spring Harbor, L. I., New York, (52). 1909. **G**

Blakiston, Kenneth M., 1012 Walnut St., Philadelphia, Pa. (54).

*Blanchard, Arthur Alphonzo, Ph. D., Associate Professor of Inorganic Chemistry, Massachusetts Institute of Technology, Boston, Mass. (58). 1910. **C**

*Blanchard, Arthur Horace, C. E., Professor of Highway Engineering, Columbia University, New York, N. Y. (52). 1905. **B D E**

Blanchard, Frank W., Department of Zoology, Massachusetts Agricultural College, Amherst, Mass. (65). **F**

*Blanchard, William Martin, Ph. D., Professor of Chemistry, De Pauw University, Greencastle, Ind. (58). 1911. **C**

Bland, Curtis, M. D., Oneida Hospital, Preston, Idaho. (60). **K**

*Bland, John Carlisle, C. E., Room 1115, Union Station, Pittsburgh, Pa. (51). 1915. **D**

Blaney, Mrs. Charles D., Saratoga, Cal. (65).

*Blankinship, Joseph William, Ph. D., 2525 Hilgard Ave., Berkeley, Cal. (51). 1909. **G**

*Blasdale, Walter Charles, Ph. D., Assistant Professor of Chemistry, University of California, Berkeley, Cal. (50). 1908. **C**

*Bleile, Albert Martin, M. D., Professor of Anatomy and Physiology, Ohio State University, Columbus, Ohio. (37). 1896. **F**

*Bleininger, Albert Victor, Bureau of Standards, Pittsburgh, Pa. (58). 1911. **C D**

Bliem, Daniel William, C. E., Manager, American Bridge Co., 1614 Pennsylvania Building, Philadelphia, Pa. (60). **D**

Bliem, Milton J., M. D., 235 West Mistletoe Ave., San Antonio, Tex. (60). **K**

Blish, W. G., Niles, Mich. (33). **B D**

Bliss, A. Richard, Jr., 824 South 20th St., Birmingham, Ala. (63).

*Bliss, Rev. Charles Bemis, Ph. D., McIndoe Falls, Vt. (49). 1906. **H I**

Bliss, Edwin Packard, C. E., 120 Milk St., Boston, Mass. (60). **D**

*Bliss, Gilbert Ames, Ph. D., Associate Professor of Mathematics, University of Chicago, Chicago, Ill. (55). 1907. **A**

Bliss, Mary Campbell, 31 Stone Hall, Wellesley College, Wellesley, Mass. (62). **G**

Bliss, R. K., Director, Agricultural Extension Department, Iowa State College, Ames, Iowa. (66). **M**

Bliss, Mrs. William Henry, 6 East 65th St., New York, N. Y. (57)

Block, Edward Bates, M. D., Empire Building, Atlanta, Ga. (65). **K**

*Blodgett, Frederick Harvey, Ph. D., Texas Agricultural Experiment Station, College Station, Texas. (52). 1905. **G L**

Blome, R. H. H., Ph. D., Northern Arizona Normal School, Flagstaff, Ariz. (65). **H L**

*Bloodgood, Joseph Colt, M. D., 904 North Charles St., Baltimore, Md. (55). 1909. **K**

BLOUNT, HENRY FITCH, "The Oaks," Washington, D. C. (32). **B I**

Blount, Miss Mary P., Department of Science, Chicago Normal College, Chicago, Ill. (65). **F**

*Blum, William, Ph. D., Bureau of Standards, Washington, D. C. (55). 1911. **C**

Blumenthal, Sidney, 305 West 90th St., New York, N. Y. (57).

*Blumer, George, M. D., Dean, Yale Medical School, New Haven, Conn. (60). 1911. **K**

*Blunt, Katharine, Ph. D., 1156 East 56th St., Chicago, Ill. (58). 1910. **C**

Boardman, W. W., M. D., Lane Hospital, San Francisco, Cal. (66). **K**

*Boas, Franz, Sc. D., Ph. D., LL. D., Franklin Ave., Grantwood, N. J. (36). 1888. **H I**

*Bodine, Donaldson, Sc. D., Professor of Geology and Zoology, Wabash College, Crawfordsville, Ind. (45). 1899. **E F**

Boerker, Richard Hans, 143 Linwood St., Brooklyn, N. Y. (65). **M**

Boerner, Emil G., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). **G**

Boerner, Wunibald R., Ravinia, Ill. (54). **B D**

*Bogert, Marston Taylor, LL. D., Professor of Organic Chemistry, Columbia University, New York, N. Y. (47). 1900. **C**

*Boggs, Gilbert Hillhouse, Ph. D., Associate Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. (58). 1910. **C**

Boggs, Lucinda Pearl, Ph. D., 811 West Illinois St., Urbana, Ill. (57). **H**

Bogue, Edward Augustus, M. D., 63 West 48th St., New York, N. Y. (57). **K**

Bohlen, Francis Hermann, Professor of Law, University of Pennsylvania, Philadelphia, Pa. (65). **I**

Bohleng, Lee Hayes Chentu High School, Chentu, Szchuen, China. (58). **B C D**

Boley, Ernst, Assistant General Superintendent, American Steel and Wire Co., Cleveland, Ohio. (63).

Bolles, Newton Alden, M. D., 18 Ferguson Building, Denver, Colo. (50). **C D I K**

*Bolley, Henry Luke, Professor of Botany and Zoology, North Dakota Agricultural College, Agricultural College, N. D. (39). 1892. **F G**

Bolling, George E., 17 Gifford St., Brockton, Mass. (58). **C K**

*Bolser, Charles E., Hanover, N. H. (58). 1910. **C**

Bolster, Augustus S., M. D., 323 Pleasant St., Worcester, Mass. (50). **K**

*Bolton, Frederick Elmer, Ph. D., Professor of Education, University of Washington, Seattle, Wash. (62). 1915. **L**

*Bolton, Thaddeus Lincoln, Ph. D., University of Montana, Missoula, Mont. (50). 1901. **H I**

*Bond, George Meade, M. E., 141 Washington St., Hartford, Conn. (33). 1885. **D**

Bond, Josiah, Alto, Arizona. (58). **C D**

*Bondurant, Eugene Du Bose, M. D., Professor of Pathology and Bacteriology, University of Alabama, Mobile, Ala. (54). 1909. **K**

*Bonnet, Frederic, Jr., Ph. D., Assistant Professor of Chemistry, Worcester Polytechnic Institute, Worcester, Mass. (53). 1906. **C**

Bonnett, Charles Pierre, C. E., 265 Webster Ave., New Rochelle, N. Y. (60). **D**

*Bonns, Walter W., Citrus Experiment Station, Riverside, Cal. (62). 1915. **G**

Bonsall, Mrs. Elizabeth Hubbard, Morton, Pa. (64). **E**

*Book, William Frederick, Ph. D., 3249 Broadway, Indianapolis, Ind. (60). 1911. **H**

*Bookman, Samuel, Ph. D., 46 East 82d St., New York, N. Y. (47). 1900. **C K**

Boon, John Daniel, Professor of Physics, Chemistry and Geology, Polytechnic College, Fort Worth, Tex. (50). **B C E**

Boone, Richard G., 2831 Benvenue Ave., Berkeley, Cal. (66).

Booraem, John Van Vorst, M. E., 204 Lincoln Place, Brooklyn, N. Y. (36). **B C**

Boot, David Herbert, P. O. Box 75, Iowa City, Iowa. (63). **E G**

Boot, George W., M. D., Evanston, Ill. (65). **K**

*Booth, Edward, Department of Chemistry, University of California, Berkeley, Cal. (50). 1909. **C**

*Booth, Miss Mary Ann, 60 Dartmouth St., Springfield, Mass. (34). 1894. **F G I**

Boothroyd, S. L., University of Washington, Seattle, Wash. (65).

Borden, Miss Lydia Prichett, National Farm School, Farm School, Pa. (63). **F G**

*Boring, Alice Middleton, Ph. D., Assistant Professor of Zoology, University of Maine, Orono, Me. (61). 1913. **F**

*Boring, Edwin Garrigues, Morrill Hall, Ithaca, N. Y. (63). 1915. **H**

Boring, Mrs. Edwin Garrigues, 113 Glen Place, Ithaca, N. Y. (61). **H**

Born, Rudolph C., Forest Glen Road, Longmeadow, Mass. (60). **C**

Boskowitz, George W., M. D., 140 West 71st St., New York, N. Y. (57). **K**

Boss, Andrew, Chief, Division of Agriculture, University Farm, St. Paul, Minn. (62). **G**

Boswell, Foster Partridge, Ph. D., Professor of Psychology and Education, Hobart College, Geneva, N. Y. (62). **H L**

*Boswell, Maitland C., Chemical and Mining Building, University of Toronto, Toronto, Canada. (60). 1915. **C**

*Bosworth, Alfred W., N. Y. Agricultural Experiment Station, Geneva, N. Y. (65). 1915. **C**

Bothne, Gisle, Professor of Scandinavian Languages and Literature, University of Minneapolis, Minneapolis, Minn. (61). L

Boucek, Anthony J., M.D., 624 Chestnut St., N.S., Pittsburgh, Pa. (51). K

*Bouton, Charles Leonard, Ph. D., Associate Professor of Mathematics, Harvard University, Cambridge, Mass. (50). 1901. A

*Boutwell, John Mason, E. M., Howard Canfield Building, Santa Barbara, Cal. (46). 1905. E

*Bovaird, David, Jr., M. D., 156 Fifth Ave., New York, N. Y. (57). 1908. K

Bovard, John Freeman, Professor of Biology, University of Oregon, Eugene, Oregon. (58). F

Bovée, J. Wesley, M. D., The Rochambeau, Washington, D. C. (60). K

*Boving, Adam Giede, Ph. D., U. S. Dept. of Agriculture, Washington, D. C. (65). 1915. F

Bowden, A. O., Huron, S. D. (65). H

*Bowditch, Charles Pickering, 111 Devonshire St., Boston, Mass. (43). 1897. H

Bowen, Anna C. C., 210 East Main St., Batavia, N. Y. (66). A F H

*Bowen, Norman L., Geophysical Laboratory, Washington, D. C. (63). 1914. E

Bowes, Orlando Curtin, Columbia University, New York, N. Y. (64). F

Bowie, Alexander, E. M., Bowie, Colo. (58). D

*Bowie, William, C. E., U. S. Coast and Geodetic Survey, Washington, D. C. (57). 1907. A D E

Bowker, Charles H., M. D., The De Soto, Washington, D. C. (60). K

Bowker, Richard Rogers, 241 West 37th St., New York, N. Y. (43). B D I L

Bowker, Willard Lewis, C. E., Walpole, Mass. (60). D

Bowker, William H., 43 Chatham St., Boston, Mass. (60).

*Bowles, Oliver, U. S. Bureau of Mines, Washington, D.C. (61). 1911. E

Bowling, Alonzo Jesse, 3131 Wabash Ave., Chicago, Ill. (62).

Bowman, Howard H. M., Botanical Laboratory, University of Pennsylvania, Philadelphia, Pa. (65). G

Bowman, Jacob Neibert, Assistant Professor of European History, University of Washington, Seattle, Wash. (65).

Bowman, John Brady, Professor of Education, Mt. Union College, Alliance, Ohio. (62). L

Bowman, John Gabbert, Morrisville, Pa. (65).

Bowman, Paul Jay, R. R. 3, Middletown, Pa. (65). F

*Bownocker, John Adams, Sc. D., Professor of Inorganic Geology, Ohio State University, Columbus, Ohio. (48). 1905. E

Box, Cora May, 275 McGregor Ave., Cincinnati, Ohio. (63). F

Boyack, Breeze, Agricultural Experiment Station, Fort Collins, Colo. (64). G

Boyce, David C., M. D., 846 Western Ave., N. S., Pittsburgh, Pa. (60). **K**

Boyce, Ernest Walter, E. E., 218 93d St., Brooklyn, N. Y. (60). **D**

*Boyce, James, Chief Chemist, American Cotton Oil Co., 225 West 19th St., Chicago, Ill. (58). 1910. **C**

Boyce, John Shaw, U. S. Forest Service, San Francisco, Cal. (64). **G M**

Boyce, Mrs. Mary M., 858 Belden Ave., Chicago, Ill. (64).

*Boyd, James Ellsworth, Professor of Mechanics, Ohio State University, Columbus, Ohio. (46). 1899. **B D**

Boyd, William Edington, 702 19th St., N. W., Washington, D. C. (66). **G M**

*Boyden, Edward Allen, 17 Woodward St., Newton Highlands, Mass. (65). 1915. **F**

Boyer, Charles S., 6140 Columbia Ave., Philadelphia, Pa. (60). **A**

Boylston, Arthur Clarence, Mallinckrodt Chemical Works, St. Louis, Mo. (58). **C D**

Boynton, Dr. Charles E., 183 Rush St., Chicago, Ill. (60). **A K**

*Boynton, William Pingry, Ph. D., Professor of Physics, University of Oregon, Eugene, Ore. (60). 1910. **B**

Braam, Maximilian, Department of Biology, Hughes High School, Cincinnati, Ohio. (63). **F**

Brabec, Frank J., M. D., Perham, Minn. (60). **K**

Brace, Edith M., Eastern District High School, Brooklyn, N. Y. (54). **F G**

*Brace, Mrs. R. N., 223 East 17th St., New York, N. Y. (49). 1906. **H**

*Bracken, Henry Martyn, M. D., 1010 Fourth St. S. E., Minneapolis, Minn. (60). 1911. **K**

BRACKENRIDGE, GEORGE W., San Antonio, Tex. (41).

*Brackett, Byron Briggs, Ph. D., Professor of Electrical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. (46). 1911. **B D**

*Brackett, Frank Parkhurst, Professor of Mathematics, Pomona College, Claremont, Cal. (50). 1906. **A**

Brackett, Mary M., 604 West 115th St., New York, N. Y. (54). **G**

*Brackett, Richard Newman, Ph. D., Clemson Agricultural College, Clemson College, S. C. (37). 1891. **C E**

Bradbury, Wymond H., 459 C St. N. W., Washington, D. C. (60). **C**

Bradford, Moses B. L., 60 Main St., Concord, Mass. (60).

*Bradley, Charles Schenck, 41 Park Row, New York, N. Y. (40). 1911. **B C D**

*Bradley, Harold Cornelius, Ph. D., 1811 Adams Ave., Madison, Wis. (60). 1911. **C F**

*Bradley, James Chester, Ph. D., Assistant Professor of Entomology, Cornell University, Ithaca, N. Y. (54). 1910. **F**

BRADLEY, M. J., 373 Fulton St., Brooklyn, N. Y. (43).

Bradley, Theodore J., Massachusetts College of Pharmacy, Boston, Mass. (60).

*Bradley, Walter Parke, Ph. D., 210 Waterman St., Providence, R. I. (50). 1906. B C

Bradshaw, John William, Ph. D., Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (63). A

Bradt, Harlan Hurlbut, P. O. Box 20, Stanford University, Cal. (63). E

*Brady, William, Superintendent, Illinois Steel Works of Chicago, 7642 Marquette Ave., Chicago, Ill. (58). 1909. C

*Braga, Eduardo de A., Caixa Postal 1684, Rio de Janeiro, Brazil, S. A. (62). 1914. D

Braine, Bancroft Gherardi, M. E., 1186 Lexington Ave., New York, N. Y. (65). D

Brainerd, Erastus, Richmond Beach, Wash. (52). H

Braman, Winfred Waite, 200 West Beaver Ave., State College, Pennsylvania. (58). C

Bramwell, George Washington, 335 Broadway, New York, N. Y. (43). D

*Brandegee, Townshend S., Department of Botany, Hearst Mining Building, Berkeley, Cal. (65). 1915. G M

*Branner, John Casper, Ph. D., LL. D., President, Leland Stanford Junior University, Stanford University, Cal. (34). 1886. E F

*Brannon, J. Marshall, Biological Building, University of Wisconsin, Madison, Wis. (63). 1915. G

*Brannon, Melvin Amos, Ph. D., President University of Idaho, Moscow, Idaho. (55). 1909. G

Bransby, Carlos, 2636 Channing Way, Berkeley, Cal. (65).

*Branson, Edwin Boyer, Ph. D., Professor of Geology, University of Missouri, Columbia, Mo. (57). 1911. E

*Brasch, Frederick E., P. O. Box 1063, Stanford University, Cal. (62). 1915. A

*BRASHEAR, JOHN ALFRED, Sc. D., LL. D., Allegheny, Pa. (33). 1885. A B D

Bratton, W. A., 570 Boyer Ave., Walla Walla, Wash. (65).

Braucher, Ralph Waldo, Kent, Ohio. (60). F

*Braun, Annette Frances, Ph. D., 2702 May St., Cincinnati, Ohio. (60). 1915. F

Braunnagel, Jules L. A., M. D., P. O. Box 925, San Antonio, Tex. (50). H K

*Bray, William Crowell, Ph. D., Chemical Laboratory, University of California, Berkeley, Cal. (60). 1910. C

*Bray, William L., Ph. D., 305 Bedford Park Boulevard, Bronx, New York, N. Y. (49). 1901. G

Breckenridge, John E., American Agricultural Chemical Co., Carteret, N. J. (60). C

Bredin, George S., R. F. D. 5, West Chester, Pa. (58).

*Breed, Frederick Stephen, Ph.D., Assistant Professor of Education, University of Michigan, Ann Arbor, Mich. (63). 1915. L

*Breed, Robert Stanley, Ph. D., New York Agricultural Experiment Station, Geneva, N. Y. (51). 1909. E F

*Breese, Burtis Burr, Ph. D., Professor of Psychology, University of Cincinnati, Cincinnati, Ohio. (54). 1910. H L

*Breidenbaugh, Edward S., Sc. D., Professor of Chemistry and Mineralogy, Pennsylvania College, Gettysburg, Pa. (57). 1909. C

Breitenbecher, Joseph Kumler, Ph. D., Adelbert College, Cleveland, Ohio. (65). F

Breithaupt, L. R., Harney Branch Agricultural Experiment Station, Burns, Oregon. (64). G

*Breitwieser, Joseph Valentine, Ph. D., Professor of Psychology and Education, Colorado College, Colorado Springs, Colo. (61). 1915. H L

*Bremer, John Lewis, M. D., Harvard Medical School, Boston, Mass. (58). 1911. K

*Breneman, Abram Adam, 97 Water St., New York, N. Y. (58). 1911. C

*Brenke, William Charles, Ph. D., Associate Professor of Mathematics, University of Nebraska, Lincoln, Nebr. (56). 1908. A

Brennan, Martin Stanislaus, D. D., Sc. D., 6304 Minnesota Ave., St. Louis, Mo. (58). A

Brereton, Thomas John, C. E., 124 5th Ave., Chambersburg, Pa. (58). D

*Bretnall, George Herbert, Head, Department of Biology, State Normal School, La Crosse, Wis. (58). 1911. F G

Brett, George Monroe, Hartley Hall, 115th St. and Amsterdam Ave., New York, N. Y. (54). A D

*Bretz, J. Harlen, Assistant Professor of Geology, University of Chicago, Chicago, Ill. (57). 1911. E

Brewer, Edward M., 40 Churchill's Lane, Milton, Mass. (60).

Brewster, Carl Milton, State College of Washington, Pullman, Wash. (62). C L

Brewster, Edwin Tenney, 11 Locke St., Andover, Mass. (51). F G

Brewster, Frank, Ames Building, Boston, Mass. (61). H

Brewster, Frank H., M. E., 180 Woodbridge Ave., Buffalo, N. Y. (51). D

*Bridge, Norman, M. D., 10 Chester Place, Los Angeles, Cal. (51). 1906. H I K L

*Bridwell, John Colburn, Government Nurseries, Honolulu, Hawaii. (65). 1915. G M

Briganti, P., M. D., 205 East 17th St., New York, N. Y. (58). K

Briggs, Charles H., 12 Old Colony Building, Minneapolis, Minn. (60). C

Briggs, Edward Cornelius, M. D., 129 Marlborough St., Boston, Mass. (50). **F K**

*Briggs, Lyman James, Ph. D., 3208 Newark St., Cleveland Park, Washington, D. C. (48). 1901. **B**

Briggs, Thomas H., Teachers College, Columbia University, New York, N. Y. (65). **L**

Briggs, Wallace Alvin, M. D., P. O. Box 667, Sacramento, Cal. (51). **K**

Briggs, William Ellery, 2209 M St., Sacramento, Cal. (66).

*Brigham, Albert Perry, Professor of Geology, Colgate University, Hamilton, N. Y. (41). 1900. **E**

*Brigham, William Tufts, Sc. D., Director, B. P. Bishop Museum of Polynesian Ethnology and Natural History, Honolulu, Hawaii. (54). 1909. **H**

Brill, Abraham Arden, M. D., 55 Central Park West, New York, N. Y. (65). **K**

*Brill, George Mackenzie, M. E., Consulting Engineer, 2534 Hillegas St., Berkeley, Cal. (51). 1906. **D**

*Brill, Nathan Edwin, M. D., 48 West 76th St., New York, N. Y. (54). 1911. **H K**

Briscoe, Charles Francis, Ph. D., Head, Department of Bacteriology, Mississippi Agricultural Experiment Station, Agricultural College, Miss. (63). **G**

Bristol, John I. D., 1 Madison Ave., New York, N. Y. (49).

*Bristol, William Henry, M. E., President, The Bristol Company, Waterbury, Conn. (36). 1894. **A B D**

Brittain, William H., Agricultural College, Truro, N. S., Canada. (63). **F G**

*Britton, Nathaniel Lord, Sc. D., Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (29). 1882. **E G**

BRITTON, WILBY, 6 North Mill St., Kansas City, Kansas. (40). **F**

*Britton, Wilton Everett, Ph. D., State Entomologist, Connecticut Agricultural Experiment Station, New Haven, Conn. (54). 1906. **F**

Broadhead, Miss Annie Maple, R. F. D. No. 3, Olympia, Wash. (61).

*Broadhurst, Miss Jean, Assistant Professor of Biology, Teachers College, Columbia University, New York, N. Y. (54). 1911. **F G**

Broadrup, George L., M. D., 203 Virginia Ave., Cumberland, Md. (60). **K**

Brock, Henry M., S. J., Professor of Physics, Boston College, Boston, Mass. (57). **B E**

Brock, Luther S., M. D., Morgantown, W. Va. (61). **K**

*Brock, Reginald Walter, Ph. D., Geological Survey of Canada, Ottawa, Canada. (54). 1907. **E**

*Brode, Howard Stidham, Ph. D., Professor of Biology, Whitman College, Walla Walla, Wash. (62). 1915. **F**

Broman, Isidore J., State Mine Inspector, Capitol Station, Austin, Texas. (62). **D E**

Bromberg, Frederick George, Mobile, Ala. (60).

Bronson, Edward Bennett, M. D., 10 West 49th St., New York, N. Y. (49). **K**

*Bronson, Howard Logan, Ph. D., Professor of Physics, Dalhousie University, Halifax, Nova Scotia. (58). 1910. **B**

*Brooke, William Ellsworth, Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. (58). 1910. **A**

*Brookover, Charles, Ph. D., Medical Department, University of Arkansas, Little Rock, Ark. (55). 1915. **F**

*Brooks, Alfred Hulse, U. S. Geological Survey, Washington, D. C. (52). 1905. **E**

*Brooks, Charles, Ph. D., U. S. Department of Agriculture, Washington, D. C. (53). 1913. **G**

Brooks, Charles Franklin, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). **A M**

*Brooks, Clyde, Ph. D., Assistant Professor of Physiology and Pharmacology, University of Pittsburgh, Pittsburgh, Pa. (63). 1915. **K**

Brooks, Elisha, Ben Lomond, Cal. (65).

*Brooks, Fred Ernest, French Creek, W. Va. (58). 1913. **F**

*Brooks, Harlow, M. D., 44 West 9th St., New York, N. Y. (62). 1911. **K**

Brooks, Ira Sanford, Ottawa, Ill. (63). **G**

*Brooks, J. Ansel, Assistant Professor of Mechanical Drawing, Brown University, Providence, R. I. (54). 1915. **A B D**

Brooks, Miles Elijah, C. E., 19 Milford St., Boston, Mass. (61). **D**

Brooks, Paul P. B., Carlinville, Ill. (58). **A B C**

Brooks, Peter C., 2 Deerfield St., Boston, Mass. (60). **G**

Brooks, William Penn, Ph. D., Director, Massachusetts Agricultural Experiment Station, Amherst, Mass. (38). **C F**

*Brooks, William Robert, Sc. D., Director, Smith Observatory, and Professor of Astronomy, Hobart College, Geneva, N. Y. (35). 1886. **A B D**

*Broomall, Henry L., 1302 Commonwealth Building, Philadelphia, Pa. (58). 1913. **H**

Broughton, Henry Primm, E. E., Crown Point, Ind. (60). **D**

Brousseau, Miss Kate, Mills College, Cal. (66).

Brown, Alexander G., Jr., M. D., 1135 West Franklin St., Richmond, Va. (60). **K**

*Brown, Amos Peaslee, E. M., Ph. D., Professor of Mineralogy and Geology, University of Pennsylvania, Philadelphia, Pa. (50). 1906. **E**

*Brown, Calvin Smith, Sc. D., Ph. D., Professor of Modern Languages, University of Mississippi, University, Miss. (54). 1911. **E F G**

*Brown, Charles Wilson, Associate Professor of Geology, Brown University, Providence, R. I. (54). 1909. E

Brown, Cony T., E. M., Socorro, New Mexico. (60). D

Brown, David Walter, Ph. D., 5 Beekman St., New York, N. Y. (55). D

*Brown, Edgar, Botanist in Charge of Seed Laboratory, U. S. Department of Agriculture, Washington, D. C. (52). 1911. G

*Brown, Edgar Dwight, M. D., Professor of Pharmacology, University of Minnesota, Minneapolis, Minn. (60). 1911. K

Brown, Elias G., M. D., Founder and Director, The Mountain School, Allaben, N. Y. (56). L

*Brown, Elmer Ellsworth, Ph. D., LL. D., Chancellor, New York University, New York, N. Y. (57). 1907. I L

Brown, Elmer M., M. D., Fidelity Block, Tacoma, Wash. (60). K

*Brown, Ernest B., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). 1915. G

*Brown, Ernest William, Sc. D., Professor of Mathematics, Yale University, New Haven, Conn. (53). 1906. A B

*Brown, Fay Cluff, Ph. D., 219 Reynolds St., Iowa City, Iowa. (55). 1911. B

Brown, Forest B. H., Department of Botany, Ohio State University, Columbus, Ohio. (64). G

Brown, Frederick M., 54 Wall St., New York, N. Y. (58).

Brown, Frederick Walworth, Civil Service Commission, Washington, D. C. (63). F

Brown, George A., 304 East Walnut St., Bloomington, Ill. (58). L

*Brown, George Lincoln, Ph. D., Professor of Mathematics, South Dakota State College, Brookings, S. D. (55). 1907. A

Brown, Gilbert L., Professor of Education and Psychology, Northern State Normal School, Marquette, Mich. (63). L

Brown, Glenn Vinton, Professor of Chemistry, Bucknell University, Lewisburg, Pa. (51). B C E

Brown, Harold Chapman, Ph. D., Assistant Professor of Philosophy, Leland Stanford Junior University, Stanford University, Cal. (60). H

*Brown, Harry Bates, Professor of Forestry, Mississippi A. and M. College, Agricultural College, Miss. (60). 1911. G M

Brown, Harry Philip, Ph. D., Assistant Professor of Forest Botany, N. Y. State College of Forestry, Syracuse, N. Y. (65). G M

Brown, Henry B., President, Valparaiso University, Valparaiso, Ind. (58). I L

Brown, J. W., Sylacauga, Ala. (65). G

Brown, James, Professor of Physics and Chemistry, Butler College, Indianapolis, Ind. (61). B C

Brown, Joseph Grant, 1013 Ramona St., Palo Alto, Cal. (62). B

*Brown, Joseph Stanford, Far View Farm, R. F. D. Box 38, Black Hall, Conn. (50). 1906. D

Brown, Julius Arthur, 80 Claremont Ave., New York, N. Y. (60). **B**

*Brown, Lawrason, M. D., 104 Main St., Saranac Lake, N. Y. (60). 1911. **K**

*Brown, Linwood Arnold, 425 Transylvania Park, Lexington, Ky. (60). 1911. **C**

*Brown, Lucius Polk, Food and Drug Commissioner of Tennessee, 312 6th Ave., North, Nashville, Tenn. (54). 1911. **C E**

Brown, Nellie A., U. S. Department of Agriculture, Washington, D. C. (60). **G**

Brown, Nelson Courtlandt, Professor of Forest Utilization, N. Y. State College of Forestry, Syracuse, N. Y. (65). **M**

Brown, Orville Harry, Ph. D., M. D., Missouri State Sanatorium for Incipient Tuberculosis, Mt. Vernon, Mo. (58). **K**

Brown, Percy Edgar, Ph. D., Professor of Soil Bacteriology, Iowa State College, Ames, Iowa. (66). **G**

*Brown, Robert Marshall, Rhode Island Normal School, Providence, R. I. (48). 1911. **E**

*Brown, Samuel Boardman, Professor of Geology, West Virginia University, Morgantown, W. Va. (40). 1911. **E**

*Brown, Stewardson, 20 East Penn St., Germantown, Philadelphia, Pa. (50). 1906. **G I**

*Brown, Thomas Clachar, Ph. D., Bryn Mawr College, Bryn Mawr, Pa. (57). 1914. **E**

Brown, Thomas R., Ph. D., M. D., 806 Equitable Building, Wilmington, Del. (61). **K**

Brown, W. Jesse, Richard City, Tenn. (58). **B C D E**

Brown, W. McCulloh, Bayard, W. Va. (60).

*Brown, Wade Hampton, M. D., Rockefeller Institute for Medical Research, New York, N. Y. (63). 1915. **K**

*Brown, Warner, Ph. D., Department of Psychology, University of California, Berkeley, Cal. (60). 1911. **H L**

Brown, William Adams, Ph. D., D. D., 600 West 122d St., New York, N. Y. (57). **I L**

*Brown, William George, Ph. D., Professor of Chemistry, University of Missouri, Columbia, Mo. (58). 1909. **C**

*Brown, William Henry, Bureau of Science, Manila, P. I. (60). 1915. **G**

Browne, Arthur Lee, P. O. Box 1630, Baltimore, Md. (56). **C**

Browne, Arthur S., 902 F St., N. W., Washington, D. C. (62).

*Browne, Arthur Wesley, Ph. D., Professor of Chemistry, Cornell University, Ithaca, N. Y. (57). 1908. **C**

*Browne, Charles Albert, Ph. D., 80 South St., New York, N. Y. (52). 1909. **C**

*Browne, Ethel Nicholson, Ph. D., University of California, Berkeley, Cal. (60). 1915. **F K**

Browne, William Robert, C. E., Bethany Beach, Delaware. (54). **D**

Browne, William Ward, Ph. D., College of the City of New York, New York, N. Y. (64). F

Brownell, Silas Brown, LL. D., 71 Wall St., New York, N. Y. (36).

Browning, Charles Clifton, M. D., 1227 Diamond Ave., S. Pasadena, Cal. (51). K L

BROWNING, J. HALL, 199 Chambers St., New York, N. Y. (57).

*Browning, Philip Embury, Ph. D., Assistant Professor of Chemistry, Yale University, New Haven, Conn. (46). 1903. C

*Browning, William, M. D., Professor of Diseases of the Mind and Nervous System, Long Island College Hospital, Brooklyn, N.Y. (53). 1906. H K

Bruce, Donald, Assistant Professor of Forestry, University of California, Berkeley, Cal. (64). G M

*Bruce, Robert E., Assistant Professor of Mathematics, Boston University, Boston, Mass. (60). 1915. A

Bruegel, A. Theodore, M. E., Hess-Bright Manufacturing Co., Front St. and Erie Ave., Philadelphia, Pa. (60). D

*Brues, Charles Thomas, Department of Economic Entomology, Bussey Institution, Forest Hills, Boston, Mass. (54). 1906. F

Bruggerhof, F. W., 53 Barclay St., New York, N. Y. (49).

*Brumback, Arthur Marion, Professor of Chemistry, Denison University, Granville, Ohio. (60). 1910. C

Brumbaugh, Gaius Marcus, M. D., 905 Massachusetts Ave., Washington, D. C. (60). K

*Bruner, Frank G., Ph. D., Associate Director, Department of Child Study, Board of Education, 806 Tribune Building, Chicago, Ill. (55). 1911. H K

*Bruner, Henry Lane, Ph. D., Professor of Zoology, Butler College, Indianapolis, Ind. (50). 1906. F

*Bruner, Lawrence, Professor of Entomology, University of Nebraska, Lincoln, Nebr. (50). 1901. F

Brunson, A. M., Agricultural Building, University of Illinois, Urbana, Ill. (66). M

*BRUNTON, DAVID WILLIAM, E. M., 730 Symes Building, Denver, Colo. (50). 1911. D E

*Brush, Charles Francis, Ph. D., LL. D., The Arcade, Cleveland, Ohio. (35). 1886. B

Bryan, Enoch Albert, LL. D., President, State College of Washington, Pullman, Wash. (54). I

Bryan, Mary Katherine, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). G

*Bryan, William Alanson, Professor of Zoology, College of Hawaii, Honolulu, Hawaii. (55). 1908. F

*Bryan, William Lowe, Ph. D., LL. D., President, Indiana University, Bloomington, Ind. (49). 1900. H

Bryant, Austin T., M. D., McKinney, Texas. (60). K

Bryant, DeWitt Clinton, M. D., P. O. Box 173, Claremont, Cal. (62). K

*Bryant, Dixie Lee, Ph. D., 4035 No. Kedvale Ave., Irving Park Station, Chicago, Ill. (42). 1915. E

Bryant, Edward Sohier, U. S. Forest Service, Washington, D. C. (56). E

*Bryant, Ernest Calvin, Professor of Physics and Mathematics, Middlebury College, Middlebury, Vermont. (60). 1910. A B

Bryant, Harold C., Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (63). F

*BRYANT, HENRY GRIER, 2013 Walnut St., Philadelphia, Pa. (51). 1905. E

*BRYANT, OWEN, 3 Brimmer St., Boston, Mass. (54). 1906. F K

Bryant, R. C., Professor of Forestry, Yale Forest School, New Haven, Conn. (66). M

*Bryce, Rev. George, D. D., LL. D., President, Royal Society of Canada, Winnipeg, Manitoba, Canada. (38). 1889. H

Bubb, Henry, Ullenwood, near Cheltenham, England. (60).

Buchanan, Edward F., 128 East Crescent St., Marquette, Mich. (60). C

Buchanan, James Isaac, President, Pittsburgh Trust Co., Pittsburgh, Pa. (51). I

*Buchanan, Robert Earle, Ph. D., Professor of Bacteriology, Iowa State College, Ames, Iowa. (63). 1913. K

*Bucher, John Emery, Ph. D., Head, Department of Chemistry, Brown University, Providence, R. I. (54). 1908. C

*Buchner, Edward Franklin, Ph. D., Professor of Philosophy and Education, Johns Hopkins University, Baltimore, Md. (49). 1901. H L

*Buck, Alonzo Morris, M. E., Assistant Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. (58). 1915. D

Buck, J. Etna, Alabama Polytechnic Institute, Auburn, Ala. (60). F

*Buck, Thomas, Ph. D., Department of Mathematics, University of California, Berkeley, Cal. (58). 1910. A

Buckingham, Burdette R., Ph. D., Chief Statistician, Department of Education, New York, N. Y. (60). L

*Budington, Robert Allyn, Associate Professor of Biology, Oberlin College, Oberlin, Ohio. (52). 1910. F K

*BUEHLER, DR. HENRY ANDREW, Director, Missouri Bureau of Geology and Mines, Rolla, Mo. (63). 1913. E

Buerger, Leo, M. D., 40 East 41st St., New York, N. Y. (65). K

*Buffum, Burt C., Worland, Wyo. (42). 1906. G

Bugbee, Alice Gates, M. D., 69 Hamilton Ave., White Plains, N. Y. (60). K

Buist, George Alexander, Professor of Chemistry and Geology, Furman University, Greenville, S. C. (65). C E

*Bull, Coates Preston, Associate Professor of Agronomy, College of Agriculture, University Farm, St. Paul, Minn. (52). 1911. G I L

Bullard, Herbert Hays, Ph. D., 2407 East Ashland Ave., Baltimore, Md. (64). K

*Bullard, Warren Gardner, Ph. D., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). 1906. A L

Bullene, Mrs. Emma F. Jay, 1409 Broadway, Denver, Colo. (50). H

Bullis, Abram Rogers, Macedon, N. Y. (58). A

Bullitt, James B., M. D., University of North Carolina, Chapel Hill, N. C.

Bullock, Edward Lippincott, 175 Church St., Hazleton, Pa. (65). (55). H K

Bump, Milan Raynard, E. E., Apartment 31, 15 Claremont Ave., New York, N. Y. (58). D

*Bumpus, Hermon Carey, Sc. D., Ph. D., LL. D., President, Tufts College, Tufts College, Mass. (49). 1900. F L

*Bumstead, Henry Andrews, Ph. D., Professor of Physics, Yale University, New Haven, Conn. (60). 1910. B

Bunker, Henry A., M. D., 158 6th Ave., Brooklyn, N. Y. (50). I K

*Bunting, Charles Henry, M. D., Professor of Pathology, University of Wisconsin, Madison, Wisconsin. (58). 1909. K

Bunting, Martha, Ph. D., The Newport, Spruce and 16th Sts., Philadelphia, Pa. (60). F G H

*Bunzel, Herbert Horace, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. C G

*Burbank, John Emerson, R. F. D. 1, Strong, Me. (57). 1909. B

*BURBANK, LUTHER, Sc. D., Santa Rosa, Cal. (50). 1901. G

*Burckhalter, Charles, Chabot Observatory, Oakland, Cal. (65). 1915. A

Burdick, Alfred Stephen, M. D., 2148 Giddings Ave., Chicago, Ill. (58). K

Burdick, Lewis Dayton, Oxford, N. Y. (52). H I

*Burger, William Henry, Assistant Professor of Civil Engineering, Northwestern University, Evanston, Ill. (62). 1915. D

*Burgess, Albert Franklin, Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. (54). 1906. F

*Burgess, Edward Sandford, Sc. D., Ph. D., Professor of Natural Science, New York City Normal College, New York, N. Y. (47). 1901. E F G H

*Burgess, George Kimball, Sc. D., Ph. D., Bureau of Standards, Washington, D. C. (55). 1907. A B C

*Burgess, Horace Thomas, University of Wisconsin, Madison, Wis. (63). 1915. A

*Burgess, Laurie Lorne, Ph. D., Professor of Analytical Chemistry, University of Saskatchewan, Saskatoon, Canada. (60). 1911. C

Burgess, Paul Steere, College of Agriculture, University of California, Berkeley, Cal. (64). G

*Burgess, Thomas J. W., M. D., Medical Superintendent, Protestant Hospital for the Insane, Montreal, Canada. (38). 1889. E G H

Burgin, Herman, M. D., 63 West Chelten Ave., Germantown, Pa. (66). G

Burk, W. E., 944 Woodward Ave., Detroit, Mich. (55). C K

Burke, C. E., Ph. D., Department of Chemistry, University of Vermont, Burlington, Vt. (65). C

Burke, Milo Darwin, C. E., 706 2d National Bank Building, Cincinnati, Ohio. (50). **A B C D E**

Burleigh, Charles B., E. E., 1 Oak Terrace, Malden, Mass. (58). **D**

Burley, Benjamin T., M. D., 25 High St., Worcester, Mass. (60). **K**

*Burling, Lancaster Demorest, Geological Survey of Canada, Ottawa, Canada. (60). 1915. **E**

*Burlingame, Leonas Lancelot, Ph. D., Stanford University, Cal. (58). 1915. **G**

Burlingame, William B., M. E., 18 Linden St., Exeter, N. H. (60). **D**

Burmeister, William Henry, M. D., 312 South Ashland Boulevard, Chicago, Ill. (65). **K**

Burnet, Wallace C., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). **C**

*Burnett, Charles Theodore, Ph. D., Professor of Psychology, Bowdoin College, Brunswick, Me. (54). 1911. **F H I K**

Burnett, Frederick, 1337 King St., West, Toronto, Canada. (56). **D I**

*Burnett, Theodore Crété, M. D., University of California, Berkeley, Cal. (64). 1915. **K**

*Burnette, F. H., Professor of Horticulture, Louisiana State University, Baton Rouge, La. (54). 1906. **F G**

*Burnham, Ernest, Director, Rural School Department, Western State Normal School, Kalamazoo, Mich. (63). 1915. **L**

Burnham, George, Jr., C. E., Berwyn, Pa. (51). **D**

*Burnham, Stewart Henry, R. F. D. 2, Box 55, Hudson Falls, N. Y. (60). 1911. **G**

*Burnham, William Henry, Ph. D., Professor of Pedagogy, Clark University, Worcester, Mass. (58). 1910. **H L**

Burns, Eleanor Irene, Professor of Physics, American College for Girls, Constantinople, Turkey. (58). **B**

Burns, Elmer Ellsworth, Department of Physics and Chemistry, High School, Berwyn, Ill. (58). **B C**

*Burns, George Plumer, Ph. D., Professor of Botany, University of Vermont, Burlington, Vt. (58). 1909. **G**

Burns, Louisa, A. T. Still Research Institute, 122 South Ashland Boulevard, Chicago, Ill. (65).

Burr, H. M., 106 Lawn Ave., Middletown, Conn. (60). **C**

Burr, I. Tucker, 53 State St., Boston, Mass. (60).

*Burr, William Hubert, C. E., Professor of Civil Engineering, Columbia University, New York, N. Y. (31). 1883. **D**

*Burr, William W., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). 1915. **E G**

Burrell, Ramon Haddock, M. D., Creighton, Nebr. (51). **K**

*Burrill, Thomas Jonathan, Ph. D., LL. D., Emeritus Professor of Botany, University of Illinois, Urbana, Ill. (53). 1905. **G**

Burrow, Trigant, M. D., Ph. D., Washington Apartment, Mt. Vernon Place, Baltimore, Md. **K**

*Burrows, George H., University of Vermont, Burlington, Vt. (60). 1914. C

*Burrows, Montrose Thomas, M. D., Associate Professor of Anatomy, Cornell Medical College, New York, N. Y. (63). 1915. G K

*Burt, Edward Angus, Ph. D., Missouri Botanical Garden, St. Louis, Mo. (50). 1901. G

Burt, Frederick Arthur, Professor of Biology, Juniata College, Huntington, Pa. (60). F

Burt, Silas Wright, C. E., 216 West 100th St., New York, N. Y. (57). D E F

*Burton, Alfred Edgar, C. E., Sc. D., Dean, Massachusetts Institute of Technology, Boston, Mass. (60). 1913. D

Burton, George Dexter, President, Electro-Chemical Fibre Co., 185 Summer St., Boston, Mass. (63). C D

*Burton, Hon. Theodore E., Cleveland Ohio. (52). 1905. I

*Burton-Opitz, Russell, M. D., Ph. D., Head, Department of Physiology, Columbia University, New York, N. Y. (52). 1905. K

Burwell, Albert L., P. O. Box 208, Winsted, Conn. (63).

*Busck, August, U. S. National Museum, Washington, D. C. (58). 1913. F

Bush, Prof. Egbert T., Stockton, N. J. (65). L M

Bush-Brown, Henry Kirke, 1729 G St., N. W., Washington, D. C. (64). L

*Bushnell, David I., Jr., University, Va. (51). 1903. H

Bushnell, George E., Fort Bayard, N. M. (60).

Bushnell, Leland D., Assistant Professor of Bacteriology, Kansas State Agricultural College, Manhattan, Kansas. (64). G K

Bussey, George D., 77 Somerset Ave., Winthrop, Mass. (60).

*Bussey, William Henry, Ph. D., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (58). 1909. A

Bustamante, Delfin Sanchez, 1016 Bartolome Mitre Adrogué, F. C. S., Argentina, S. A. (57). G

*Butler, Amos William, 52 Downey Ave., Irvington, Indianapolis, Ind. (30). 1885. F H I

*Butler, Bert S., U. S. Geological Survey, Washington, D. C. (57). 1911. E

*Butler, G. Montague, E. M., Oregon State Agricultural College, Corvallis, Oregon. (62). 1911. D E

Butler, Matthew Joseph, C. E., General Manager, Dominion Iron and Steel Co., Ltd., Sydney, N. S., Canada. (51). A B D

*Butler, O., Ph. D., New Hampshire College, Durham, N. H. (62). 1913. G

Butler, Paul, care U. S. Cartridge Co., Lowell, Mass. (57). C

Butler, William M., Yeatman High School, St. Louis, Mo. (58). B

Butler, William Mill, 456 Fort Washington Ave., New York, N. Y. (57).

*Butman, Chester A., 5748 Baum St., East Liberty Station, Pittsburgh, Pa. (63). 1915. **B**

Butsch, John Louis, M. D., Assistant Professor of Pharmacology, University of Buffalo, Buffalo, N. Y. (66). **K**

Butterbaugh, William Sherman, M. D., Atwood, Colo. (60). **K**

*Butterfield, Arthur Dexter, Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. (50). 1915. **A D**

*Butterfield, Kenyon Leech, LL. D., President, Massachusetts Agricultural College, Amherst, Mass. (60). 1910. **I L**

Butters, Charles H., 4132 Lyndale Ave., S., Minneapolis, Minn. (60). **C**

*Butters, Frederic King, Assistant Professor of Botany, University of Minnesota, Minneapolis, Minn. (58). 1911. **G**

Butters, Roy Morrill, 144C South Grant St., Denver, Colo. (60). **E**

Butterworth, Julian Edward, Ph. D., Professor of Secondary Education, University of Wyoming, Laramie, Wyo. (64). **L**

*Buttram, Frank, Oklahoma Geological Survey, Norman, Okla. (64). 1915. **E**

*Buwalda, John Peter, University of California, Berkeley, Cal. (65). 1915. **E G**

*Buxton, Bertram Henry, M. D., Professor of Experimental Medicine, Cornell University Medical College, New York, N. Y. (54). 1907. **F G K**

*Byars, Luther Parris, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1915. **G**

Bybee, Halbert Pleasants, University of Texas, Austin, Texas. (65). **E**

Bye, Mortimer, Wm. S. Merrell Chemical Co., Cincinnati, Ohio. (60). **C**

Byers, Edward A., Department of Science, Fayetteville High School, Fayetteville, Ark. (62).

*Byers, Horace Greeley, Ph. D., Professor of Chemistry, University of Washington, Seattle, Wash. (63). 1914. **C**

*Byrnes, Charles Metcalfe, M. D., Adjunct Professor of Anatomy, University of Virginia, Charlottesville, Va. (57). 1911. **K**

Byrnes, Clarence P., Frick Annex, Pittsburgh, Pa. (62).

Byrnes, Owen, E. M., Gould, Mont. (51). **D E**

Cadwalader, Williams Biddle, M. D., 1710 Locust St., Philadelphia, Pa. (65). **K**

Cady, Gilbert Haven, 7415 Parnell Ave., Chicago, Ill. (63). **E**

*Cady, Hamilton Perkins, Ph. D., Professor of Chemistry, University of Kansas, Lawrence, Kans. (52). 1906. **B C**

*Cady, Walter B., Rio Piedras, Porto Rico. (56). 1915. **C**

*Cady, Walter Guyton, Ph. D., Professor of Physics, Wesleyan University, Middletown, Conn. (49). 1906. **B**

Cady, William Hamlin, Chemist, 127 Power St., Providence, R. I. (57). **C**

Cahn, Alvin R., Biology Building, University of Wisconsin, Madison, Wis. (65). **F**

*Cain, William, Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. (50). 1901. A D

Caine, William Phillips, M. E., P. O. Box 27, Ensley, Ala. (60). D

Caird, James Morton, C. E., 271 River St., Troy, N. Y. (60). D

Cairnes, DeLorme Donaldson, Ph. D., M. E., Geological Survey of Canada, Ottawa, Canada. (66). E

*Cajori, Florian, Ph. D., LL. D., Professor of Mathematics, Colorado College, Colorado Springs, Colo. (50). 1901. A

Calatroni, Ricardo, Professor of Biology, Colegio Nacional, La Plata, Argentina, S. A. (64). F

*Caldwell, Benjamin Palmer, Ph. D., Associate Professor of Chemistry, Tulane University, New Orleans, La. (55). 1909. C

Caldwell, Charles Peter, M. D., 4429 Michigan Ave., Chicago, Ill. (60). K

*Caldwell, Joseph Stuart, Professor of Botany, Alabama Polytechnic Institute, Auburn, Ala. (60). 1911. G

*Caldwell, Otis William, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (49). 1902. G L

Caldwell, Wallace L., 1025½ North 24th St., Birmingham, Ala. (64).

Calef, J. Francis, M. D., 171 Broad St., Middletown, Conn. (60). K

*Calhoun, Fred H. H., Ph. D., Professor of Geology and Mineralogy, Clemson Agricultural College, Clemson College, S. C. (54). 1911. E

*Calkins, Gary Nathan, Ph. D., Professor of Protozoology, Columbia University, New York, N. Y. (49). 1901. F

Calkins, Marshall, M. D., 14 Maple St., Springfield, Mass. (29). K

Calkins, R. D., Mt. Pleasant, Mich. (60). E

Call, Henry Lawrens, P. O. Box 1260, Boston, Mass. (57).

Call, Leland E., Professor of Soils, Kansas State Agricultural College, Manhattan, Kansas. (66). M

Callen, Alfred Copeland, E. M., 940 High St., Pottstown, Pa. (61). B D

Calm, Charles Emil, Ph. D., care California Club, Los Angeles, Cal. (56). C E

*Calvert, Philip Powell, Ph. D., Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (50). 1903. F

*Calvert, Sidney, Ph. D., LL. D., Professor of Organic Chemistry, University of Missouri, Columbia, Mo. (47). 1903. C

Calvin, Mrs. Henrietta W., Dean of Home Economics, Oregon State Agricultural College, Corvallis, Oregon. (65). I L

*Cameron, Frank Kenneth, Ph. D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (49). 1901. B C

Cameron, Prof. John E., 409 West 9th St., Maryville, Mo. (54). F G

Cameron, Norman W., Ph. D., Professor of Education, Western State Normal School, Kalamazoo, Mich. (65). L

Cameron, Walter S., 239 West 136th St., New York, N. Y. (58). B C F G

Camp, Frederick A., Waldo Avenue and 244th St., New York, N. Y. (57). E

Camp, Joseph Parker, 2017 I St. N. W., Washington, D. C. (58). H

*Campbell, Douglas Houghton, Ph. D., Professor of Botany, Leland Stanford Junior University, Stanford University, Cal. (34). 1888. G

*Campbell, George Ashley, Ph. D., 15 Dey St., New York, N. Y. (63). 1913. D

*Campbell, Henry Donald, Sc. D., Ph. D., Professor of Geology and Biology, Washington and Lee University, Lexington, Va. (52). 1905. E F G

Campbell, Jessie R., 541 West Ave., Rochester, N. Y. (60). A

Campbell, John A., St. James Hotel, Philadelphia, Pa. (65).

*Campbell, John Pendleton, Ph. D., Professor of Biology, University of Georgia, Athens, Ga. (60). 1913. F K

*Campbell, Leslie Lyle, Ph. D., Head, Department of Physics, Simmons College, Boston, Mass, (48). 1910. B

*Campbell, Marius Robison, U. S. Geological Survey, Washington, D. C. (52). 1905. E

Campbell, Robert A., P. O. Box 441, Fullerton, Nebr. (61). G

*Campbell, William Francis, M. D., 394 Clinton Ave., Brooklyn, N. Y. (57). 1911. K

Campbell, William Mullan, President, American Savings Bank, New York, N. Y. (57). B

*CAMPBELL, WILLIAM WALLACE, Sc.D., LL.D., Director, Lick Observatory, Mt. Hamilton, Cal. (50). 1901. A

Canavan, Myrtelle M., M. D., 74 Fenwood Road, Boston, Mass. (65). K

Canfield, George Folger, 49 Wall St., New York, N. Y. (57).

Canis, Edward N., 2221 Park Ave., Indianapolis, Ind. (64).

Canniff, William Henry, 710 Hickox Building, Cleveland, Ohio. (63).

Cannon, Annie Jump, Harvard College Observatory, Cambridge, Mass. (65). A

Cannon, Arthur M., Holladay School, Portland, Oregon. (65).

*Cannon, George Lyman, 1914 Pennsylvania St., Denver, Colo. (39). 1901. E

*Cannon, Walter Bradford, M. D., Professor of Physiology, Harvard Medical School, Boston, Mass. (54). 1906. K

*Cannon, William Austin, Ph. D., Desert Botanical Laboratory, Tucson, Ariz. (52). 1905. G

*Canter, Hall, Ph. D., Professor of Chemistry, Randolph-Macon College, Ashland, Va. (54). 1909. C

Cantley, Thomas, E. M., General Manager, U. S. Steel and Coal Co., Ltd., New Glasgow, N. S., Canada. (60). D

Caparo, José Angel, Professor of Physics and Electrical Engineering, University of Notre Dame, Notre Dame, Ind. (62). B D

Caplin, Jessie, 2748 Hennepin Ave., Minneapolis, Miss. (60). A

CAPP, SETH BUNKER, P. O. Box 2054, Philadelphia, Pa. (66). I L

*Capps, Joseph A., M. D., 2532 Prairie Ave., Chicago, Ill. (58). 1909. K

*Cardiff, Ira D., Ph. D., Professor of Plant Physiology, State College of Washington, Pullman, Wash. (58). 1911. G

Cardon, Philip Vincent, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). G

Carel, Hubert Charles, Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (62). C

Carey, Eben J., Creighton Medical College, Omaha, Nebr. (66). K

*Carhart, Henry Smith, Sc. D., LL. D., 277 North El Molino Ave., Pasadena, Cal. (29). 1881. B

Carhart, Paul Worthington, care G. & C. Merriam Co., Springfield, Mass. (56). B

*Carleton, Mark Alfred, U. S. Department of Agriculture, Washington, D. C. (42). 1894. E G

Carlitz, Joseph S., 159 North Second St., Philadelphia, Pa. (60). C

Carlsmith, Carl S., Hilo, Hawaii. (65).

*Carlson, Anton Julius, Ph. D., Professor of Physiology, University of Chicago, Chicago, Ill. (52). 1906. K

Carlyle, Elmer C., College Station, Texas. (58). C E

Carlyle, William Levi, Stillwater, Okla. (64). G

*Carman, Albert Pruden, Sc. D., Professor of Physics, University of Illinois, Urbana, Ill. (58). 1910. B

Carman, Albro R., M. D., 27 West 127th St., New York, N. Y. (60). K

*Carman, J. Ernest, Ph. D., University of Cincinnati, Cincinnati, Ohio. (63). 1915. E

*Carmichael, Robert Daniel, 5535 University Ave., Chicago, Ill. (57). 1908. A

Carmody, T. E., M. D., 1427 Stout St., Denver, Colo. (60). K

Carnegie, Thomas Morrison, Fernandina, Fla. (50). F

*Carney, Frank, Ph. D., Professor of Geology, Denison University, Granville, Ohio. (58). 1910. E

Carothers, Estella Eleanor, Department of Zoology, University of Pennsylvania, Philadelphia, Pa. (64). F

Carpenter, C. W., 1436 R St., N. W., Washington, D. C. (63). G

Carpenter, Rev. Charles Knapp, 311 Park St.. Elgin, Ill. (55). F

Carpenter, Charles U., President, Herring-Hall-Marvin Safe Co., 400 Broadway, New York, N. Y. (60). D

Carpenter, Clifford D., Assistant Professor of Chemistry, Teachers College, Columbia University, New York, N. Y. (65).

Carpenter, Delma Rae, Professor of Mathematics, Roanoke College, Salem, Va. (63). A

*Carpenter, Ford Ashman, LL. D., U. S. Weather Bureau, Los Angeles, Cal. (44). 1910. B D E L

Carpenter, Frances Ann, M. D., The Belleview-Manchester, Baltimore, Md. (54). K

*Carpenter, Frank Berton, Chief Chemist, Virginia-Carolina Chemical Co., Richmond, Va. (60). 1911. C

Carpenter, Frank George, 1223 Connecticut Ave., Washington, D. C. (62).

*Carpenter, Frederic Walton, Ph. D., Professor of Biology, Trinity College, Hartford, Conn. (58). 1909. F

Carpenter, Leonard, R. F. D. 3, Medford, Oregon. (57).

*Carpenter, Louis George, C. E., 1455 Gilpin St., Denver, Colo. (32). 1889. D

Carpenter, Thorne Martin, Nutrition Laboratory, Carnegie Institution, Boston, Mass. (63). C

Carpenter, William B., 36 Prince St., Jamaica Plain, Boston, Mass. (58). A L

*Carr, William Kearny, 1413 K St. N. W., Washington, D. C. (52). 1915. B I

Carrier, Aubrey D., Mechanicsville, N. Y. (60). C

Carrier, Lyman, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (66). M

Carroll, Anna Laurie, Department of Physics, State Normal School, Plattsburg, N. Y. (57). B

Carroll, John S., care German Kali Works, 1212 Empire Building, Atlanta, Ga. (62). C

Carroll, Robert S., M. D., Medical Director, Highland Hospital, Asheville, N. C. (65). K

Carroll, William Ernest, Associate Professor of Animal Husbandry, Agricultural College of Utah, Logan, Utah. (64). F

Carruth, John G., Bellevue-Stratford Hotel, Philadelphia, Pa. (54). D

Carson, A. Courtenay, 811 Sumter St., Columbia, S. C. (65).

Carson, Charles M., University of New Brunswick, Fredericton, N. B., Canada. (60). C

Carson, Luella Clay, 23d and Hoyt Sts., Portland, Oreg. (66).

Carstens, J. Henry, M. D., Detroit, Mich. (58). K

Carswell, Nathaniel Taylor, Macon, Ga. (64). K

Carswell, Robert E., E. E., 14th Ave. S. E., and Winter St., Minneapolis, Minn. (64). D

*Carter, Benjamin Edward, Assistant Professor of Mathematics, Colby College, Waterville, Me. (58). 1909. A

Carter, Bernard M., General Chemical Co. of California, Bay Point, Cal. (60). C

Carter, Charles, Parsons College, Fairfield, Iowa. (60). A

Carter, Charles Willard, M. D., Clinton, Ill. (60). K

Carter, Curtis C., Chapin, Ill. (61). A

Carter, E. E., Professor of Forestry, Harvard Forest School, Petersham, Mass. (66). M

*Carter, Edna, Ph. D., Vassar College, Poughkeepsie, N. Y. (60). 1915. B

Carter, Edward Perkins, M. D., Rainbow Lake, N. Y. (60) K

*Carter, James Madison G., M. D., Sc. D., Ph. D., 1309 North Hobart Boulevard, Los Angeles, Cal. (39). 1895. F

Carter, John E., 5356 Knox St., Germantown, Pa. (33). B H

Carter, Robert A., 4 Irving Place, New York, N. Y. (58).

Carty, John Joseph, E. E., American Telephone and Telegraph Co., 15 Dey St., New York, N. Y. (54). D

*Carus, Paul, Ph. D., Editor, Open Court Publishing Co., La Salle, Ill. (40). 1895. H

Carver, Gail Luke, Professor of Biology, Mercer University, Macon, Ga. (62). F

Cary, Eben J., Creighton Medical College, Omaha, Nebr. (66). K

*Cary, Lewis Robinson, Ph. D., Guyot Hall, Princeton, N. J. (63). 1915. F

Case, Clarence E., M. D., Park and Center Sts., Ashtabula, Ohio. (60). K

*Case, Ermine Cowles, Ph. D., Professor of Historical Geology and Paleontology, University of Michigan, Ann Arbor, Mich. (50). 1906. B C E

Case, Willard Erastus, Auburn, N. Y. (57). D

*Casey, Thomas Lincoln, Colonel, Corps of Engineers, U. S. A., Stoneleigh Court, Washington, D. C. (38). 1892. D F

Caspari, Charles Edward, Ph. D., Professor of Chemistry, St. Louis College of Pharmacy, St. Louis, Mo. (63). C

*Castle, William Ernest, Ph. D., LL. D., Professor of Zoology, Harvard University, New Haven, Conn. (52). 1903. F

Caswell, Albert Edward, Ph. D., University of Oregon, Eugene, Oregon. (63). B

*Catlin, Charles Albert, Sc. D., 133 Hope St., Providence, R. I. (33). 1895. C

Catlin, Guy H., Science Master, Cathedral School of St. Paul, Garden City, Long Island, N. Y. (60). A

*Cattell, James McKeen, Ph. D., LL. D., Professor of Psychology, Columbia University, New York, N. Y. (44). 1896. B F H I L

Cattell, McKeen, Garrison, N. Y. (66).

*Caudell, Andrew Nelson, U. S. National Museum, Washington, D. C. (60). 1913. F

Cazin, Adele, 11 Elston Road, Upper Montclair, N. J. (60). B

Cederberg, Prof. William Emanuel, 3906 7th Ave., Rock Island, Ill. (60). A

Cebrian, John C., 1801 Octavia St., San Francisco, Cal. (65).

Center, O. D., Boise, Idaho. (65). M

Cerna, David, M. D., Ph. D., Mayor, Monclova, Coahuila, Mexico. (51). K

*Chace, Arnold Buffum, Sc. D., 324 Angell St., Providence, R. I. (60). 1911. A

Chadbourn, Erlon R., Melrose, Mass. (29).

Chadbourne, Arthur P., M. D., Peterboro, N. H. (58). **K**

Chaddock, Robert E., Professor of Political Science, Columbia University, New York, N. Y. (66). **I**

*Chadwick, George Halcott, Department of Geology, University of Rochester, Rochester, N. Y. (54). 1909. **E F**

Chaffee, Reginald R., Pennsylvania State College, State College, Pa. (63). **M**

*Chamberlain, Charles Joseph, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (50). 1902. **G**

Chamberlain, Charles T., Jr., M. D., 306 Franklin St., Natchez, Miss. (60). **K**

*Chamberlain, Clark Wells, Ph. D., President, Denison University, Granville, Ohio. (53). 1907. **B**

Chamberlain, Edward Blanchard, 416 West 118th St., New York, N. Y. (57). **F G**

Chamberlain, George E., M. E., 1811 Heyworth Building, Chicago, Ill. (60). **D**

*Chamberlain, Joseph Scudder, Ph. D., Professor of Agricultural Chemistry, Massachusetts Agricultural College, Amherst, Mass. (58). 1910. **C**

Chamberlain, Philip William, C. E., Guapiles, Costa Rica, C. A. (60). **D**

Chamberlin, Miss Carrie B., Fisk University, Nashville, Tenn. (65).

*Chamberlin, Ralph Vary, Ph. D., Museum of Comparative Zoology, Harvard University, Cambridge, Mass. (58). 1910. **F**

*Chamberlin, Rollin Thomas, Ph. D., Assistant Professor of Geology, University of Chicago, Chicago, Ill. (50). 1909. **C E**

*Chamberlin, Thomas Chrowder, Sc. D., Ph. D., LL. D., Head, Department of Geology, University of Chicago, Chicago, Ill. (21). 1877. **B E F H**

Chambers, Frank R., 842 Broadway, New York, N. Y. (50).

Chambers, Franklin Smith, M. E., New Lisbon, N. J. (65). **D**

*Chambers, George Gailey, Ph. D., Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (58). 1915. **A D L**

Chambers, Harry L., M. D., Lawrence, Kans. (57). **K**

Chambers, Mary Davoren, Rockford College, Rockford, Ill. (60).

*Chambers, Robert, Jr., Ph. D., 345 Thrall Ave., Cincinnati, Ohio. (63). 1915. **F**

*Chambers, Will Grant, Professor of Education, University of Pittsburgh, Pittsburgh, Pa. (52). 1913. **H L**

*Chambliss, Charles Edward, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (51). 1906. **F G**

*Chambliss, Hardee, Ph. D., Professor of Chemistry, Oklahoma A. and M. College, Stillwater, Okla. (55). 1910. **C**

Champion, Charles Sumner, 2 Rector St., New York, N. Y. (64).

Champlin, Manley, South Dakota Agricultural Experiment Station, Brookings, S. D. (66). **M**

*Chandler, Charles Frederick, M. D., Sc. D., Ph. D., LL. D., Professor of Chemistry, Columbia University, New York, N. Y. (19). 1875. **C**

*Chandler, Elwyn Francis, Professor of Civil Engineering, University of North Dakota, University, N. D. (50). 1909. **A D**

Chandler, Miss Eva, 55 Stone Hall, Wellesley College, Wellesley, Mass. (61). **L**

*Chandler, William H., Professor of Pomology, New York State College of Agriculture, Ithaca, N. Y. (64). 1915. **G**

Chaney, Lucian West, Department of Labor, Washington, D. C. (45). **F**

*Chant, Clarence Augustus, Ph. D., Associate Professor of Astrophysics, University of Toronto, Toronto, Canada. (54). 1906. **A B**

Chapin, Mrs. Charles A., 1200 Lake Shore Drive, Chicago, Ill. (65).

Chapin, Charles Value, M. D., Sc. D., 84 Keene St., Providence, R. I. (60). **I K**

Chapman, Evan A., Randolph, Nebr. (61). **C F**

Chapman, George Andrew, M. D., 23 Elm St., Glens Falls, N. Y. (60). **K**

Chapman, George Henry, Massachusetts Agricultural Experiment Station, Amherst, Mass. (61) **G**

Chapman, James E., E. M., Hidalgo, Bonanza, Zacatecas, Mexico. (60). **D**

Chapman, James W., Bussey Institution, Forest Hills, Boston, Mass. (65).

Chapman, Miss Mary, 98 Calhoun St., Springfield, Mass. (58). **C G**

*Chapman, Robert Hollister, 2029 Q St., Washington, D. C. (52). 1911. **E**

Chappel, H. G., D. D. S., 630 El Dorado Ave., Oakland, Cal. (55). **H K**

Chappelear, George W., Jr., Miller School, Va. (65). **G**

Chappell, M. L., 1837 Parker St., Berkeley, Cal. (65).

*Charavay, Marius A., Assistant Professor of Engineering, Stevens Institute of Technology, Hoboken, N. J. (64). 1915. **D**

Chard, Walter Goodman, Meadowood Farms, Cazenovia, N. Y. (66). **F G M**

Charles, Grace Miriam, 1231 Louisiana St., Lawrence, Kans. (62).

Charles, Rollin Landis, Department of Physics, Lehigh University, South Bethlehem, Pa. (58). **A B**

*Charles, Miss Vera K., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1915. **G**

*Charlton, Orlando Clarke, Dallas High School, Dallas, Tex. (51). 1911. **E F G**

*Chase, Mrs. Agnes, U. S. Department of Agriculture, Washington, D. C. (54). 1911. **G**

*Chase, Frederick Lincoln, Ph. D., Director, Yale University Observatory, New Haven, Conn. (43). 1896. **A**

Chase, Frederick S., 165 Grove St., Waterbury, Conn. (60).

Chase, George Colby, D. D., LL. D., President, and Professor of Psychology and Logic, Bates College, Lewiston, Me. (54). **H I L**

Chase, Harry Gray, Professor of Physics, Tufts College, Tufts College, Mass. (52). **B**

Chase, Ira Carleton, M. D., Western National Bank Building, Fort Worth, Texas. (52). **K**

*Chase, March F., Mineral Point Zinc Co., 1111 Marquette Building, Chicago, Ill. (56). 1909. **B C**

*Chatburn, George Richard, Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. (58). 1911. **A D**

Chauncey, Elihu, 208 Madison Ave., New York, N. Y. (57).

*Chauvenet, William Marc, E. M., 620 Chestnut St., St. Louis, Mo. (50). 1901. **C D**

*Cheesman, Timothy Matlack, M. D., Garrison, N. Y. (50). 1901. **K L**

Cheever, Clarence Alonzo, M. D., 1531 Blue Hill Ave., Mattapan, Boston, Mass. (53). **G K**

Cheney, Newel, R. F. D. 74, Kennedy, N. Y. (52). **E G**

Cheney, Walter L., M. E., Meriden, Conn. (60). **D**

*Chesnut, Victor King, P. O. Box 254, Hyattsville, Md. (54). 1909. **C G**

Chester, Wayland Morgan, Professor of Biology, Colgate University, Hamilton, N. Y. (50). **F G**

Chester, Webster, Professor of Biology, Colby College, Waterville, Me. (57). **F**

Chidester, Floyd Earle, Ph. D., Rutgers College, New Brunswick, N. J. (66). **F**

Chien, Sung Shu, Botany Building, University of Chicago, Chicago, Ill. (65). **G**

*Chilcott, Ellery Channing, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1911. **E**

*Child, Charles Manning, Ph. D., Associate Professor of Zoology, University of Chicago, Chicago, Ill. (50). 1901. **F**

Childs, John Lewis, Floral Park, N. Y. (57). **E F G M**

Childs, Leroy, Corvallis, Oregon. (65).

Chippendale, Arthur, E. M., La Mutua 418, Mexico, D. F., Mexico. (60). **D**

Chisholm, A. S., Station H, Cleveland, Ohio. (63).

Chisolm, George E., 290 South St., Morristown, N. J. (50).

*Chittenden, Frank Hurlbut, Sc. D., Ph. D., U. S. Department of Agriculture, Washington, D. C. (48). 1901. **F**

*Chittenden, Jonathan Brace, Ph. D., Professor of Mathematics, Polytechnic Institute, Brooklyn, N. Y. (53). 1906. **A**

*Chittenden, Russell Henry, Sc. D., Ph. D., LL. D., Director, Sheffield Scientific School, Yale University, New Haven, Conn. (50). 1901. **K**

*Chivers, Arthur Houston, Professor of Botany, Dartmouth College, Hanover, N. H. (57). 1911. **E G**

Chowning, William M., M. D., 701 Donaldson Building, Minneapolis, Minn. (60). **K**

*Christian, Henry Asbury, M. D., Peter Bent Brigham Hospital, Boston, Mass. (60). 1911. **K**

Christiansen, C. Rushmer, M. D., University of California, Berkeley, Cal. (65). **K**

Christianson, Andrew, M. E., 198 West Pearl St., Butler, Pa. (58). **D**

Christie, E. W., M. E., Sewaren, N. J. (58). D

*Christie, Emerson Brewer, Bureau of Science, Manila, P. I. (61). 1915. H

*Christie, James, M. E., 100 Rochelle Ave., Wissahickon, Philadelphia, Pa. (33). 1894. D

*Chrysler, Mintin Asbury, Ph. D., Head, Department of Biology, University of Maine, Orono, Me. (57). 1909. G

Church, Arthur Latham, M. E., 500 North Broad St., Philadelphia, Pa. (54). D

Church, Melville, 1608 20th St., Washington, D. C. (63). I

*Churchill, William, Ph. D., Corning Glass Works, Corning, N. Y. (52). 1905. H

Churchward, Alexander, care Gray and Davis, Inc., Fenway Station, Boston, Mass. (52). D

*Chute, Horatio Nelson, Department of Physics, Ann Arbor High School, Ann Arbor, Mich. (34). 1889. A B C

Claassen, Peter W., Assistant State Entomologist, University of Kansas, Lawrence, Kans. (65). F

Claflin, Albert W., 190 Waterman St., Providence, R. I. (60). C

Clapp, Albert L., 552 Washington St., Braintree, Mass. (63).

Clapp, Charles H., University of Arizona, Tucson, Arizona. (60).

*Clapp, Cornelia Maria, Ph. D., Professor of Zoology, Mt. Holyoke College, South Hadley, Mass. (31). 1883. F

Clapp, Eugene Howard, 49 Federal St., Boston, Mass. (60). C

*Clapp, Frederick Gardner, E. M., 331 4th Ave., Pittsburgh, Pa. (51). 1906. E

Clapp, Gordon Adams, Department of Zoology, Oberlin College, Oberlin, Ohio. (63). F K

Clark, A. Wayne, care Johnson and Johnson, New Brunswick, N. J. (54). C

Clark, Anna M., 400 West 118th St., New York, N. Y. (20). H

*Clark, Arthur Lewis, Ph. D., 200 Albert St., Kingston, Ontario, Canada. (58). 1911. B D

*Clark, Austin Hobart, Smithsonian Institution, Washington, D. C. (52). 1906. E F

Clark, B. L., Bacon Hall, University of California, Berkeley, Cal. (65).

*Clark, Bertha May, Ph. D., Director of Science, William Penn High School, Philadelphia, Pa. (52). 1911. B

Clark, Burton W., 510 Euclid Ave., Syracuse, N. Y. (58). C E

Clark, Charles Frederick, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). G

Clark, Clarence M., P. O. Box 18, Chattanooga, Tenn. (58). C

Clark, Clarence Munroe, 321 Chestnut St., Philadelphia, Pa. (54). I

*Clark, Ernest D., Ph. D., U. S. Research Laboratory, 1833 Chestnut St., Philadelphia, Pa. (60). 1915. C

*Clark, Friend Ebenezer, Ph. D., Professor of Chemistry, West Virginia University, Morgantown, W. Va. (51). 1909. C

Clark, George H., Department of Agriculture, Ottawa, Canada. (61). G

Clark, Harriet Bailey, M. D., The Stuyvesant, 180 Washington Ave., Albany, N. Y. (60). **K**

Clark, Herbert A., Associate Professor of Physics, Syracuse University, Syracuse, N. Y. (50). **B C**

*Clark, Howard Walton, Bureau of Fisheries, U. S. Biological Station, Fairport, Iowa. (52). 1906. **F G**

*Clark, Hubert Lyman, Ph. D., Museum of Comparative Zoology, Cambridge, Mass. (50). 1903. **F**

*Clark, John Dustin, Associate Professor of Chemistry, University of New Mexico, Albuquerque, New Mexico. (60). 1911. **C**

*Clark, John Emory, 34 South Park Terrace, Long Meadow, Mass. (17). 1875. **A**

Clark, John Jesse, Manager, Text-Book Department, International Text-Book Co., Scranton, Pa. (50). **B D**

*Clark, Judson Freeman, Ph. D., 1164 Pacific St., Vancouver, B. C., Canada. (52). 1905. **G**

Clark, Leonard B., M. D., 36 Sycamore St., Waverly, Mass. (60). **K**

Clark, Miss Lois, P. O. Box 543, Burlington, Wash. (65).

Clark, M. A., M. D., 805–6 Georgia Life Building, Macon, Ga. (58). **K**

*Clark, Myron Henry, 1790 Broadway, New York, N. Y. (59). 1911. **C D**

Clark, Paul Franklin, Ph. D., 2006 Monroe St., Madison, Wis. (61). **K**

*Clark, Robert Watson, University of Michigan, Ann Arbor, Mich. (61). 1911. **E**

Clark, Thomas H., Ph. D., 34 Lancaster St., Worcester, Mass. (40). **C L**

Clark, Walter Gordon, E. E., 149 Broadway, New York, N. Y. (57). **B C D**

*Clark, William Bullock, Ph. D., LL. D., Professor of Geology, Johns Hopkins University, Baltimore, Md. (37). 1891. **E**

*Clark, William Mansfield, Ph. D., U. S. Department of Agriculture, Washington, D. C. (62). 1914. **C**

*Clarke, Miss Cora Huidekoper, 91 Mt. Vernon St., Boston, Mass. (47). 1910. **F G**

*Clarke, Frank Wigglesworth, Sc. D., LL. D., U. S. Geological Survey, Washington, D. C. (18). 1874. **C**

Clarke, Harold H., Office of Solicitor, U. S. Department of Agriculture, Washington, D. C. (64).

Clarke, Hopewell, E. M., 775 Portland Ave., St. Paul, Minn. (62). **D E**

Clarke, J. Alexander, Professor of Mathematics, West Philadelphia High School, Philadelphia, Pa. (60). **A E**

Clarke, James Frederic, M. D., University of Iowa, Fairfield, Iowa. (50). **G K**

*Clarke, John Mason, Sc. D., Ph. D., LL. D., New York State Geologist and Director of State Museum, Albany, N. Y. (45). 1897. **E**

*Clarke, Samuel Fessenden, Ph. D., Professor of Natural History, Williams College, Williamstown, Mass. (50). 1901. **F**

*Clarke, Warren Thompson, Professor of Horticulture, College of Agriculture, Berkeley, Cal. (57). 1914. F

Clarke, William A., E. E., 1638 Broadway, Toledo, Ohio. (60). D

Clarkson, Banyer, 26 West 50th St., New York, N. Y. (57). E F G

Clausen, Curtis P., Citrus Experiment Station, Riverside, Cal. (66). F

Clausen, Roy E., University of California, Berkeley, Cal. (66).

Clawson, Arthur Brooks, U. S. Department of Agriculture, Washington, D. C. (58). F

*Claxton, Philander P., LL. D., U. S. Commissioner of Education, Washington, D. C. (52). 1910. I L

Claybaugh, W. W., M. D., 319 Main St., Fort Morgan, Colo. (60). K

Clayberg, George Manfred, Principal, McKinley High School, Chicago, Ill. (58). A B

Cleaver, Albert Newton, 606 Delaware Ave., South Bethlehem, Pa. (50). D

*Cleaves, Margaret Abigail, M. D., 616 Madison Ave., New York, N. Y. (57). 1908. B C H K

*Cleghorn, Allen Mackenzie, M. D., Algonquin Park, Ontario, Canada. (60). 1911. K

*Cleland, Herdman Fitzgerald, Ph. D., Professor of Geology, Williams College, Williamstown, Mass. (57). 1907. E G

Clement, Harrison, E. M., University Club, Salt Lake City, Utah. (60). D

Clements, Frank Orville, Engineers Club, Dayton, Ohio. (63).

*Clements, Frederic Edward, Ph. D., Professor of Botany, University of Minnesota, Minneapolis, Minn. (52). 1905. G

Clements, George E., M. D., Crawfordsville, Ind. (52). K

*Clements, Julius Morgan, E. M., Ph. D., 20 Broad St., New York, N. Y. (51). 1903. D E

*Clevenger, Galen Howell, 381 Hawthorne Ave., Palo Alto, Cal. (65). 1915. E

Clickener, Charles, R. F. D. 1, Box 12, Silverwood, Ind. (60). F

*Clifford, Harry Ellsworth, E. E., Professor of Electrical Engineering, Harvard University, Cambridge, Mass. (54). 1906. D

Clifton, Harry Trumbull, 509 East Walnut St., Pasadena, Cal. (65).

Clinch, Edward Sears, 133 West 121st St., New York, N. Y. (57). I

*Clinton, George Perkins, Sc. D., Connecticut Agricultural Experiment Station, New Haven, Conn. (54). 1906. G

Clo, J. Harry, Ph. D., Assistant Professor of Physics, Tulane University, New Orleans, La. (63). B

*Close, Charles Phillip, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1915. G

Clothier, R. W., Office of Farm Management, U. S. Department of Agriculture, Washington, D. C. (66). M

Cloud, J. H., Professor of Physics, Valparaiso University, Valparaiso, Ind. (60). A B

*Cloud, John W., 82 York Road, King's Cross, London, N., England. (28). 1886. **A B D**

*Clough, Homer Woodworth, Arcade, N. Y. (54). 1910. **A**

Clough, Ray W., 4145 Arcade Building, Seattle, Wash. (65).

*Clover, Alphonso Morton, Ph. D., care Parke, Davis and Co., Detroit, Mich. (63). 1915. **C**

*Clute, Willard Nelson, 209 Whitley Ave., Joliet, Ill. (57). 1909. **G**

Coan, Titus Munson, M. D., 424 West 119th St., New York, N. Y. (60). **E K**

*Coates, Charles Edward, Ph. D., Professor of Chemistry, Louisiana State University, Baton Rouge, La. (46). 1906. **C**

Coates, Joseph Hornor, "Mannering," Berwyn, Pa. (64).

*Cobb, Collier, Professor of Geology, University of North Carolina, Chapel Hill, N. C. (49). 1905. **E**

*Cobb, Herbert Edgar, Professor of Mathematics, Lewis Institute, Chicago, Ill. (58). 1908. **A D**

Cobb, John N., 2323 North Broadway, Seattle, Wash. (65).

*Cobb, Nathan Augustus, Ph. D., Chief, Division of Crop Technology, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

Cobb, Percy W., Nela Park, Cleveland, Ohio. (63). **K**

Cobb, William Battle, U. S. Department of Agriculture, Washington, D. C. (65). **E**

*Cobleigh, William Merriam, Professor of Chemistry and Physics, Montana State College of A. and M. Arts, Bozeman, Mont. (56). 1911. **B C**

*Coblentz, Virgil, Ph. D., 595 3d St., Brooklyn, N. Y. (58). 1910. **C**

*Coblentz, William Weber, Ph. D., Bureau of Standards, Washington, D. C. (60). 1910. **B**

Coburn, Howard L., M. E., 83 Newbury St., Boston, Mass. (60). **D**

Cochel, Wilbur Andrew, Professor of Animal Husbandry, Kansas State Agricultural College, Manhattan, Kans. (64). **G**

*Cochran, Carlos Bingham, Sc. D., Professor of Chemistry, State Normal School, West Chester, Pa. (43). 1896. **C**

Cochrane, Alexander, 40 Central St., Boston, Mass. (60).

*Cockayne, Charles Alexander, Ph. D., President, Toledo University, Toledo, Ohio. (63). 1915. **H**

Cocke, William Irby, M. D., Port Washington, N. Y. (58). **K**

*Cockerell, Theodore D. A., Professor of Zoology, University of Colorado, Boulder, Colo. (50). 1901. **F G**

*Coe, George Albert, Ph. D., LL. D., Professor of Practical Theology, Union Theological Seminary, New York, N. Y. (54). 1906. **H L**

Coe, Henry W., M. D., "The Marquam," Portland, Oregon. (32). **F H K**

Coe, Howard Sheldon, Forage Crop Investigation Office, U. S. Department of Agriculture, Washington, D. C. (64). **G**

Coe, Thomas Upham, M. D., Bangor, Me. (51). **K**

Coe, True D., M. D., Keithsburg, Ill. (58). **C E G K**

*Coe, Wesley Roswell, Ph. D., Professor of Biology, Yale University, New Haven, Conn. (58). 1910. **F**

Coffey, George Nelson, Ph. D., University of Illinois, Urbana, Ill. (64). **G**

Coffey, Walter Costella, Professor of Sheep Husbandry, University of Illinois, Urbana, Ill. (61). **F**

Coffin, Charles Albert, 30 Church St., New York, N. Y. (50).

Coffin, Fletcher Barker, Lake Forest, Ill. (53). **C**

*Coffin, Joseph George, Ph. D., Assistant Professor of Physics, College of the City of New York, New York, N. Y. (60). 1910. **B**

*Coffin, Selden Jennings, Ph. D., Professor of Astronomy, Lafayette College, Easton, Pa. (22). 1874. **A I**

Coffman, John Daniel, U. S. Forest Service, Weaverville, Cal. (65). **G**

Coffman, William H., M. D., Georgetown, Ky. (60). **K**

*Coghill, George Ellett, Ph. D., University of Kansas, Lawrence, Kansas. (52). 1903. **F**

*Cogswell, William Browne, Vice-President, Solvay Process Co., Syracuse, N. Y. (33). 1891. **D**

*Cohen, Abraham, Ph. D., Associate Professor of Mathematics, Johns Hopkins University, Baltimore, Md. (58). 1909. **A**

Cohen, Mendes, C. E., 825 North Charles St., Baltimore, Md. (50). **D**

*Cohen, Morris R., College of the City of New York, New York, N. Y. (60). 1915. **H**

*Cohen, S. Solis, M. D., 1525 Walnut St., Philadelphia, Pa. (50). 1903. **F K**

Cohen, William Nathan, LL. D., 22 William St., New York, N. Y. (57). **I**

Cohn, Alfred E., M. D., 315 Central Park, West, New York, N.Y. (64). **K**

Cohn, Charles C., P. O. Box 764, Manila, P. I. (66).

*Cohoe, Benson Ambrose, M. D., 705 North Highland Ave., Pittsburgh, Pa. (58). 1911. **K**

Coil, Nathan Watson, Superintendent, Monroeville Public Schools, Monroeville, Ind. (57). **G**

*Coit, James Milnor, Ph. D., Konradstrasse 4, Munich, Germany. (33). 1903. **B C E**

*Coit, John Eliot, Ph. D., Professor of Citriculture, University of California, Berkeley, Cal. (55). 1911. **G**

*Coit, Judson Boardman, Ph. D., Professor of Mathematics and Astronomy, Boston University, Boston, Mass. (54). 1906. **A**

*Coker, Robert Ervin, Ph. D., Deputy Commissioner, U. S. Bureau of Fisheries, Washington, D. C. (57). 1909. **E F**

*Coker, William Chambers, Ph. D., Professor of Botany, University of North Carolina, Chapel Hill, N. C. (52). 1905. **G**

Colaneri, Francois, M. D., 135 rue Lamarck, Paris, France. (65). K

Colby, Charles C., Associa.e Professor of Geography, George Peabody School for Teachers, Nashville, Tenn. (60). E

*Cole, Alfred Dodge, Professor of Physics, Ohio State University, Columbus, Ohio. (39). 1891. B C

Cole, Clarence Le Roy, Captain, Medical Corps, U. S. A., Fort Sam Houston, Tex. (65). K

*Cole, Fay Cooper, Field Museum of Natural History, Chicago, Ill. (60). 1911. H

Cole, Francis J., M. E., 3 Avon Road, Schenectady, N. Y. (63). D

Cole, George Watson, 1840 Canyon Drive, Hollywood, Los Angeles, Cal. (52). I

Cole, Glenn Gates, Bethany, W. Va. (58). C

*Cole, Harry Newton, Department of Chemistry, University of Michigan, Ann Arbor, Mich. (58). 1911. B C

*Cole, Lawrence Wooster, Ph. D., Professor of Psychology and Education, University of Colorado, Boulder, Colo. (62). 1915. H L

*Cole, Leon Jacob, Ph. D., Professor of Experimental Breeding, University of Wisconsin, Madison, Wis. (52). 1909. F

*Cole, Rufus I., M. D., Director, Rockefeller Institute Hospital, New York, N. Y. (58). 1909. K

*Coleman, Arthur Philemon, Ph. D., Professor of Geology, University of Toronto, Toronto, Canada. (60). 1910. E

Coleman, George Albert, Curator, Entomological Museum, University of California, Berkeley, Cal. (60). F

*Coleman, Warren, M. D., 58 West 55th St., New York, N. Y. (57). 1909. K

*Coley, William Bradley, M. D., 40 East 41st St., New York, N. Y. (57). 1911. K

Colie, Edward Martin, East Orange, N. J. (30). E I

Colket, James Hamilton, M. E., 288 De Kalb Ave., Brooklyn, N. Y. (60). D

Collens, Archibald Edgar, Government Laboratory, Port of Spain, Trinidad, B. W. I. (58). C G

Colley, Bernard T., E. M., Superintendent, Braden Copper Co., Rancagua, Chile, S. A. (60). D

*Collie, George Lucius, Ph. D., 48 Sherwood Drive, So., Beloit, Wis. (60). 1910. E

*Collier, Arthur James, U. S. Geological Survey, Washington, D. C. (52). 1905. E

Collier, Myrtie, 5330 Pasadena Ave., Los Angeles, Cal. (66).

Collier, Price, Tuxedo Park, N. Y. (50).

Collier, Robert Joseph, 416 West 13th St., New York, N. Y. (57).

*Collin, Alonzo, Sc. D., Emeritus Professor of Physics, Cornell College, Mt. Vernon, Iowa. (21). 1891. B C

Collin, Rev. Henry Park, 98 East Chicago St., Coldwater, Mich. (37). E H
Collins, Guy N., Chula Vista, Cal. (51). G
*Collins, James Franklin, 468 Hope St., Providence, R. I. (58). 1909. G
*Collins, Katherine Richards, M. D., State Board of Health, Atlanta, Ga. (61). 1911. K
Collins, Mary Overstreet, Turnerville, Ga. (63). C G L
Collins, Paul, P. O. Box 697, New Haven, Conn. (60). C
Collins, T. Shields, M. D., 2425 West 23d St., Los Angeles, Cal. (51). K
Collison, Stanley E., Professor of Chemistry, Agricultural Experiment Station, Gainesville, Fla. (63). G
*Colony, Roy Jed, Assistant Professor of Metallurgy and Mineralogy, Cooper Union, New York, N. Y. (58). 1911. C
*COLTON, HAROLD SELLERS, Ph. D., 3409 Powelton Ave., Philadelphia, Pa. (54). 1913. F
*Colvin, Stephen Sheldon, Ph. D., Professor of Psychology, Brown University, Providence, R. I. (56). 1909. H
*Colvin, Verplanck, President, New York Canadian Pacific Railway, 175 Western Ave., Albany, N. Y. (28). 1880. E
Colwell, Rachel H., Professor of Home Economics, College of Agriculture, Morgantown, W. Va. (65). I
*Comey, Arthur Messinger, Ph. D., Upland Ave., opposite Summit St., Chester, Pa. (57). 1908. C
*Compton, Karl Taylor, Ph. D., Assistant Professor of Physics, Princeton University, Princeton, N. J. (65). 1915. B
*Comstock, Charles Worthington, C. E., M. E., Ph. D., care Ellsworth Bethel, 283 So. La Fayette St., Denver, Colo. (47). 1901. A B D
*Comstock, Clarence Elmer, Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. (58). 1908. A L
*Comstock, Daniel Frost, Ph.D., Assistant Professor of Theoretical Physics, Massachusetts Institute of Technology, Boston, Mass. (52). 1910. B
*Comstock, Elting Houghtaling, Professor of Mechanics and Mathematics, University of Minnesota, Minneapolis, Minn. (58). 1909. A D
*Comstock, George Cary, Sc. D., LL. D., Director, Washburn Observatory, University of Wisconsin, Madison, Wis. (34). 1887. A L
*Comstock, John Henry, Professor of Entomology, Cornell University, Ithaca, N. Y. (54). 1906. F
Comstock, Louis K., E. E., 30 Church St., New York, N. Y. (65). D
*COMSTOCK, THEODORE BRYANT, E. M., Sc. D., 534 Stimson Building, Los Angeles, Cal. (24). 1877. B D E
*Conant, Charles Arthur, 32 Nassau St., New York, N. Y. (52). 1903. I
*Conant, Levi Leonard, Ph. D., Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. (39). 1892. A H L
*Conard, Henry Shoemaker, Ph. D., Professor of Botany, Grinnell College, Grinnell, Iowa. (58). 1909. G

Conarroe, Thomas H., M. D., 1807 Wallace St., Philadelphia, Pa. (50). **F K**

Conaty, Rt. Rev. Thomas James, D. D., 114 E. 2d St., Los Angeles, Cal. (66).

Condit, Daniel Dale, care U. S. Geological Survey, Washington, D. C. (63). **E**

Condit, Ira J., 908 Indian Rock Ave., Berkeley, Cal. (66).

Condon, T. G., 128 Broadway, New York, N. Y. (57).

*Condra, George Evert, Ph. D., Professor of Geography and Economic Geology, University of Nebraska, Lincoln, Nebr. (54). 1911. **E**

*Cone, Lee Holt, Ph. D., 521 Monroe St., Ann Arbor, Mich. (61). 1911. **C**

*Congdon, Edgar Davidson, Ph. D., Laboratory of Human Anatomy, Leland Stanford Junior University, Stanford University, Cal. (57). 1913. **F**

Congdon, John Potter, C. E., 618–620 Empire Building, Boise, Idaho. (60). **D**

*Conklin, Edwin Grant, Sc. D., Ph. D., Professor of Zoology, Princeton University, Princeton, N. J. (50). 1901. **F**

Conklin, Edmund S., University of Oregon, Eugene, Oregon. (65).

Conlisk, Charles William, 2398 Vallejo St., San Francisco, Cal. (63). **E**

*Conn, Herbert William, Ph. D., Professor of Biology, Wesleyan University, Middletown, Conn. (58). 1910. **F G**

Connaway, John Waldo, M. D., Professor of Veterinary Science, University of Missouri, Columbia, Mo. (52). **F K**

Connelley, Clifford Brown, Sc. D., M. E., Carnegie Institute of Technology, Pittsburgh, Pa. (58). **D**

Conner, Arthur B., Assistant Director, Texas Agricultural Experiment Station, College Station, Texas. (65). **G M**

Conner, S. D., Assistant Professor of Agricultural Chemistry, School of Agriculture, Purdue University, La Fayette, Ind. (66). **C M**

Connett, James E., M. D., Lawrenceville, Ill. (60). **K**

Connor, Augustus Camillus, M. D., P. O. Box 8, Lexington, Texas. (60). **K**

Conolly, Henry M., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). **G M**

*Conradi, Albert Frederick, Professor of Entomology, Clemson Agricultural College, Clemson College, S. C. (55). 1915. **F**

*Conradson, Pontus H., Chief Chemist, Galena-Signal Oil Co., Franklin, Pa. (51). 1906. **C**

Conrey, Arthur J., Mount Lincoln High School, Palisades, Colo. (64).

Conser, Harry Newton, Assistant Professor of Botany, University of Maine, Orono, Me. (60). **G**

*Converse, Henry Augustus, Ph. D., 1204 Mt. Royal Ave., Baltimore, Md. (54). 1906. **A B**

*Converse, William A., 2005 McCormick Building, Chicago, Ill. (55). 1909. **C**

Converse, William Hasson, C. E., Converse Bridge Co., Chattanooga, Tenn. (58). **D**

Conway, Eustace, 66 Broadway, New York, N. Y. (57).

Conway, Thomas J., Texas Agricultural Experiment Station, College Station, Texas. (65). **F M**

*Cook, Albert John, Sc. D., Capitol Building, Sacramento, Cal. (58). 1914. **F**

*Cook, Alfred Newton, Ph. D., Professor of Chemistry, University of South Dakota, Vermilion, S. D. (58). 1910. **C**

*Cook, Harold James, Agate, Nebraska. (62). 1911. **E**

*Cook, Henry Wireman, M. D., 1002 Franklin Ave., W., Minneapolis, Minn. (60). 1914. **K**

Cook, Howard H., 61 Broadway, New York, N. Y. (62).

Cook, J. Franklin D., M. D., Langford, S. D. (60). **K**

Cook, J. Glenn, 4601 Garrison Ave., Baltimore, Md. (60).

Cook, John, E. E., 30 Church St., New York, N. Y. (65).. **D**

Cook, John H., 12 McPherson Terrace, Albany, N. Y. (58). **E**

*Cook, Miss Margaret Harris, 122 West Linn St., Bellefonte, Pa. (63). 1914. **F**

*Cook, Melville Thurston, Ph. D., Professor of Plant Pathology, New Jersey Agricultural Experiment Station, New Brunswick, N. J. (45). 1902. **G**

*Cook, Orator Fuller, U. S. Department of Agriculture, Washington, D. C. (40). 1892. **G**

*Cook, Samuel Richard, Ph. D., 97 Randol Ave., San Jose, Cal. (50). 1903. **A B**

Cooke, Charles Montague, Jr., Ph. D., P. O. Box 717, Honolulu, Hawaii. (58). **F**

Cooke, Forest Harwood, Nordhoff, Cal. (66).

*Cooke, Rev. George Willis, 49 Park Ave., Wakefield, Mass. (47). 1913. **H I**

Cooke, Harte, M. E., care McIntosh and Seymour Corp., Auburn, N. Y. (53). **D**

Cooke, Louis J., M. D., 909 6th St., S. E., Minneapolis, Minn. (61). **K**

*Cooke, Morris Llewellyn, M. E., 401 West Walnut Lane, Germantown, Pa. (60). 1915. **D**

Cookman, Alfred, Professor of Biology, University of Southern California, Los Angeles, Cal. (65). **F**

Cooksey, Charlton Dows, 104 Huntington St., New Haven, Conn. (64). **B**

*Cooley, Grace E., Ph. D., 11 Thomas St., Newark, N. J. (47). 1900. **G I**

*Cooley, Jacquelin Smith, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Cooley, LeRoy Clark, Ph. D., 2 Reservoir Square, Poughkeepsie, N. Y. (19). 1880. **B C**

*Cooley, Mortimer Elwyn, M. E., LL. D., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. (33). 1885. **D**

*Cooley, Robert Allen, Professor of Zoology, Montana State College of A. and M. Arts, Bozeman, Mont. (50). 1903. **F L**

COOLIDGE, MRS. J. RANDOLPH, 130 Beacon St., Boston, Mass. (60).
Coolidge, Philip T., 77 Garfield St., Watertown, Mass. (64). M
Coons, C. D., Professor of Physics, Denison University, Granville, Ohio. (63). B
Cooper, Everett Hanson, 1 Grove St., Greenwood, Mass. (64). G
Cooper, Frank Lawrence, Ph. D., Yale Station, New Haven, Conn. (58). B
*Cooper, Hermon Charles, Ph. D., Professor of Chemistry, Syracuse University, Syracuse, N. Y. (51). 1906. C
Cooper, Thomas P., Fargo, N. D. (60).
Cooper, William S., 1345 Webster St., Palo Alto, Cal. (58). E G
*Coover, John Edgar, Ph. D., Leland Stanford Junior University, Stanford University, Cal. (64). 1914. H
Coover, Winfred F., Associate Professor of Chemistry, Iowa State College, Ames, Iowa. (61). C
Cope, R. P., Pullman, Wash. (66).
Cope, Thomas Darlington, Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (65). B
*Copeland, Edwin Bingham, Ph. D., Dean, College of Agriculture, University of the Philippines, Los Banos, P. I. (45). 1901. G
*Copeland, Manton, Ph. D., Professor of Biology, Bowdoin College, Brunswick, Me. (60). 1911. F
*Copeland, William Franklin, Ph. D., Professor of Elementary Science, State Normal College, Ohio University, Athens, Ohio. (58). 1911. G
*Coplin, William M. L., M. D., Professor of Pathology and Bacteriology, Jefferson Medical College, Philadelphia, Pa. (51). 1903. K
*Corbett, Lee Cleveland, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (48). 1901. G
*Cordley, Arthur Burton, Dean, School of Agriculture, Oregon State Agricultural College, Corvallis, Oregon. (64). 1915. G
*Corey, Fred Brainard, E. E., M. E., 245 Maplewood Ave., Edgewood Park, Pa. (58). 1915. D
*Corey, Samuel Arthur, Ph. D., Hiteman, Iowa. (58). 1909. A
*Cornelison, Robert Wilson, Sc. D., 275 West Summit St., Somerville, N. J. (51). 1911. C
Cornish, George A., Normal School, Peterboro, Ontario, Canada. (52). F
*Cornman, Oliver Perry, Ph. D., 422 Church Lane, Philadelphia, Pa. (46). 1911. H I L
Cornwall, Neill C., 2230 Chapel St., Berkeley, Cal. (65).
Corper, Harry J., M. D., Ph. D., Municipal Tuberculosis Sanitarium, Chicago, Ill. (64). K
Cort, William Walter, Ph. D., Associate Professor of Biology, Macalester College, St. Paul, Minn. (66). F
*Corthell, Elmer Lawrence, C. E., The Corthell Library, Brown University, Providence, R. I. (34). 1886. D I

Corti, José S., C. E., Casilla 68, Mendoza, Argentina, S. A. (60). **D**

Corwin, Clifford Egbert, Department of Science, Marietta High School, Marietta, Ohio. (50). **C**

*Corwin, Roy S., Department of Geology, Williams College, Williamstown, Mass. (63). 1915. **E**

Corwin, Theodore W., M. D., 146 2d Ave., Newark, N. J. (58). **K**

Coss, James Austin, 4654 Morningside Ave., Sioux City, Iowa. (58). **C**

*Coste, Eugène, M. E., 2208 Amherst St., Calgary, Alberta, Canada. (62). 1913. **D**

Costello, Harry Todd, Ph. D., 112 South 9th St., Richmond, Ind. (61).

COSTER, EDWARD L., Room 1440, 25 Broad St., New York, N. Y. (63). **D**

Cottingham, Walter H., 601 Canal Road, N. W., Cleveland, Ohio. (63).

*Cotton, Edwin Charles, Elyria, Ohio. (55). 1913. **F**

Cotton, John, M. D., Burnt Hills, N. Y. (60). **K**

*Cottrell, Frederick Gardner, Ph. D., 506 U. S. Custom House, San Francisco, Cal. (65). 1915. **C**

Coulter, John Gaylord, Ph. D., 1109 East Monroe St., Bloomington, Ill. (58). **F G L**

*Coulter, John Merle, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (32). 1884. **G**

*Coulter, Samuel Monds, Ph. D., The Shaw School of Botany, St. Louis, Mo. (52). 1905. **G**

*Councilman, William Thomas, M. D., LL. D., Professor of Pathological Anatomy, Harvard Medical School, Boston, Mass. (54). 1906. **K**

Coupland, George, Elgin, Nebraska. (64).

Courtis, Stuart Appleton, Department of Educational Research, Detroit, Mich. (61). **A L**

Coutant, Richard Bonnet, M. D., Tarrytown, N. Y. (51). **K**

*Coville, Frederick Vernon, U. S. Department of Agriculture, Washington, D. C. (35). 1890. **G**

Cowan, William A., 129 York St., Brooklyn, N. Y. (58). **A B C**

Cowart, Fletcher Jackson, Professor of Natural Science, State Normal College, Troy, Ala. (53). **F**

*Cowdry, Edmund Vincent, Johns Hopkins Medical School, Baltimore, Md. (61). 1915. **F**

Cowgill, H. B., Insular Experiment Station, Rio Piedras, P. R. (64). **G**

*Cowles, Alfred Hutchinson, E. M., Sewaren, N. J. (37). 1897. **B C D**

*Cowles, Edward, M. D., LL. D., 8 Sever St., Plymouth, Mass. (51). 1903. **H K**

*Cowles, Henry Chandler, Ph. D., Professor of Botany, University of Chicago, Chicago, Ill. (54). 1906. **G**

*Cowles, Miss Louise F., South Hadley, Mass. (47). 1905. **E**

*Cowles, Rheinart Parker, Ph. D., College of Medicine and Surgery, University of the Philippines, Manila, P. I. (58). 1910. **F**

*Cowling, Donald John, Ph. D., D. D., President, Carleton College, Northfield, Minn. (60). 1915. H

Cowper, Ophelia Morgan, 1016 Eighth St., N. W., Washington, D. C (66). K

*Cowper-Coles, Sherard, The Cottage, French St., Sunbury-on-Thames, London, England. (64). 1915. C

Cox, Edmund Otis, C. E., 154 Nassau St., New York, N. Y. (51). D

Cox, Harold Newton, care Lalance & Grosjean Manufacturing Co., Woodhaven, N. Y. (58). C D

Cox, John H., 217 Chamber of Commerce Building, Baltimore, Md. (61). C

Cox, John Lyman, 1219 Locust St., Philadelphia, Pa. (54). B D

Cox, Lolo L., R. R. 1, Zillah, Wash. (65).

Cox, Nelson H., University of Florida, Gainesville, Fla. (58). D

*Cox, Ulysses Orange, P. O. Box 81, Terre Haute, Ind. (50). 1906. F G

Cox, William Thomas, State Forester, 61 South St. Albans St., St. Paul, Minn. (62). M

Coxe, Alexander Brown, Paoli, Pa. (65).

Coxe, Eckley B., Jr., U. S. Weather Bureau Observatory, Drifton, Pa. (51). E H

Coykendall, Frederick, General Manager, Cornell Steamboat Co., 1 West 72d St., New York, N. Y. (57).

Coyle, Rev. George L., S. J., Professor of Chemistry, Holy Cross College, Worcester, Mass. (61). C

*Crafts, James Mason, LL. D., 19 Commonwealth Ave., Boston, Mass. (47). 1898. C

*Cragin, Francis Whittemore, Ph. D., 912 E. San Miguel St., Colorado Springs, Colo. (29). 1890. E F G H

*Cragwall, Jasper A., Ph. D., Professor of Mathematics, Wabash College, Crawfordsville, Ind. (57). 1909. A

Craig, Alexander Righter, M. D., 9 Chalmers Place, Chicago, Ill. (51). K

Craig, Thomas, F. R. M. S., 26 Selkirk Ave., Montreal, Canada. (57). G

*Craig, Wallace, Ph. D.; Professor of Philosophy, University of Maine, Orono, Me. (50). 1914. F H

*Craighead, Edwin Boone, LL. D., President, University of Montana, Missoula, Mont. (54). 1906. G

*Craighead, Frank C., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (63). 1915. F

*Cram, Roys Jones, 26 Hancock Ave., West, Detroit, Mich. (51). 1906. F

Cramer, Charles H., 516 Madison St., Sandusky, Ohio. (62). A L

Cramp, W. M., 1227 North Broad St., Philadelphia, Pa. (54). D

*Crampton, Charles Albert, M. D., Institute of Industrial Research, Washington, D. C. (36). 1887. C

*Crampton, Charles Ward, M. D., 500 Park Ave., New York, N. Y. (53) 1907. K

*Crampton, Guy Chester, Ph. D., Associate Professor of Entomology, Massachusetts Agricultural College, Amherst, Mass. (62). 1911. F

*Crampton, Henry Edward, Ph. D., American Museum of Natural History, New York, N. Y. (51). 1903. F H

*Crandall, Charles Spencer, Professor of Pomology, University of Illinois, Urbana, Ill. (40). 1894. G

*Crandall, Roderic, Stanford University, Cal. (57). 1915. E

Crane, Mrs. Joseph Halsey, Oakwood Village, Dayton, Ohio. (66). I L

Crane, Marcus S., Caldwell, N. J. (58). F

Cranston, Robert E., E. M., Holbrook Building, San Francisco, Cal. (50). C D E

*Crathorne, Arthur Robert, Ph. D., 1113 South 4th St., Champaign, Ill. (60). 1910. A

Craver, Harrison Warwick, Carnegie Library, Pittsburgh, Pa. (58). C

*Crawford, James Chamberlain, Associate Curator of Insects, U. S. National Museum, Washington, D. C. (54). 1913. F

*Crawford, Morris Barker, Professor of Physics, Wesleyan University, Middletown, Conn. (30). 1889. B

*Crawford, Ralph Dixon, Ph. D., Professor of Mineralogy and Petrology, University of Colorado, Boulder, Colo. (58). 1911. C E

*Crawford, Russell Tracy, Ph. D., Associate Professor of Practical Astronomy, University of California, Berkeley, Cal. (58). 1910. A

*Crawley, Edwin Schofield, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (45). 1900. A

Crawley, Howard, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (51). F

Crawley, Joseph Sanford, 9th and Jefferson Sts., Philadelphia, Pa. (54). I

Creel, Cecil Willis, 1265 Kensington Ave., Salt Lake City, Utah. (65). F

Creel, Milton P., M. D., Central City, Ky. (60). K

*Crehore, Albert Cushing, Ph. D., 409 North Broadway, Yonkers, N. Y. (50). 1908. D E

*Creighton, Elmer E. F., E. E., Union University, Schenectady, N. Y. (62). 1911. D

*Creighton, James Edwin, Ph. D., LL. D., Sage Professor of Logic and Metaphysics, Cornell University, Ithaca, N. Y. (54). 1906. H

*Crew, Henry, Ph. D., Professor of Physics, Northwestern University, Evanston, Ill. (52). 1903. B

*Criddle, Norman, Treesbank, Manitoba, Canada. (63). 1914. G

*Crile, George W., M. D., Ph. D., Professor of Clinical Surgery, Western Reserve University, Cleveland, Ohio. (51). 1903. K

Crispin, Antonio M., M. D., 854 Lexington Ave., New York, N. Y. (60). K

Crites, B. O., 1341 East 89th St., N. E., Cleveland, Ohio. (58). C

*Crockard, Frank Hearne, E. M., C. E., Vice-President and General Manager, Tennessee Coal, Iron and Railway Co., Birmingham, Ala. (50). 1915. D

Crocker, Edward Edgar, Crafton, Pa. (58). D

*Crocker, Francis Bacon, Ph. D., E. E., Professor of Electrical Engineering, Columbia University, New York, N. Y. (50). 1901. B D

CROCKER, MISS SARAH H., 319 Commonwealth Ave., Boston, Mass. (60).

*Crocker, William, Ph. D., Assistant Professor of Botany, University of Chicago, Chicago, Ill. (58). 1909. G

Crocker, William Henry, Burlingame, Cal. (65).

*Crockett, Charles Winthrop, Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. (39). 1894. A D

Cromwell, Richard O., North Carolina College of A. and M. Arts, West Raleigh, N. C. (64). G

Cron, A. B., Agricultural Experiment Station, Amarillo, Texas. (66). M

*Crook, Alja Robinson, Ph. D., Curator, Illinois State Museum of Natural History, Springfield, Ill. (47). 1902. E

Crooker, George Hazard, M. D., 101 Benefit St., Providence, R. I. (60). K

*Crosby, Cyrus Richard, Professor of Entomology, Cornell University, Ithaca, N. Y. (57). 1913. F

Crosby, Maunsell S., Rhinebeck, N. Y. (57). F

Crosby, Oscar Terry, E. E., LL. D., Warrenton, Va. (52). C E I

Crosby, Maj. Walter Wilson, C. E., Sc. D., 1431 Munsey Building, Baltimore, Md. (60). D

Crosby, Mrs. William Howard, 1042 Main St., Racine, Wis. (65).

*Crosby, William Otis, Emeritus Professor of Geology, Massachusetts Institute of Technology, Boston, Mass. (47). 1900. E

*Cross, Charles Robert, Professor of Physics, Massachusetts Institute of Technology, Boston, Mass. (29). 1880. B L

Cross, Roy, Ph. D., 1013 Grand Ave., Kansas City, Mo. (64). C

Cross, Walter M., City Hall, Kansas City, Mo. (58). C

*Cross, Whitman, Ph. D., U. S. Geological Survey, Washington, D. C. (54). 1906. E

*Crossley, Moses Leverock, Ph. D., Associate Professor of Organic Chemistry, Wesleyan University, Middletown, Conn. (63) 1915. C

Crow, Hallie Ernest, Department of Biology, Ursinus College, Collegeville, Pa. (66). F

Crowe, Albert B., Charleston, Ill. (58).

*Crowe, S. J., M. D., Johns Hopkins Hospital, Baltimore, Md. (60). 1915. K

CROWELL, A. F., 26 Rowe St., Auburndale, Mass. (30). C

*Crowell, John Franklin, Ph. D., 20 Lenox Ave., Eastt Orange, N. J. (50). 1901. I

Crowell, Lincoln, care Indian Service, Neopit, Wis. (66). M

Crowley, Charles F., M. D., John A. Creighton Medical College, Omaha, Nebr. (53). C K

*Croxton, Fred C., Industrial Commission of Ohio, Columbus, Ohio. (54). 1906. I

*Crozier, William, Brigadier-General, U. S. A., and Chief of Ordnance, War Department, Washington, D. C. (50). 1903. D

Crozier, William J., Zoological Laboratory, Harvard University, Cambridge, Mass. (63). F

*Crump, Col. Malcolm Hart, Room 24, Court House, Bowling Green, Ky. (29). 1911. E

*Cubberley, Ellwood Patterson, Ph. D., Head, Department of Education, Leland Stanford Junior University, Stanford University, Cal. (66). 1915. L

Culbreth, David M. R., M. D., 1307 North Calvert St., Baltimore, Md. (60). K

*Culin, Stewart, Curator, Department of Ethnology, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y. (33). 1890. H

*Cullen, Thomas Stephen, M. D., 20 East Eager St., Baltimore, Md. (54). 1909. D K

*Culver, Garry Eugene, Professor of Geology and Chemistry, State Normal School, Stevens Point, Wis. (54). 1906. C E

Culver, Miss Helen, Lake Forest, Ill. (58). E

*Cumings, Edgar Roscoe, Ph. D., Professor of Geology, Indiana University, Bloomington, Ind. (48). 1901. E

*Cummings, Byron, Dean, School of Arts and Sciences, University of Utah, Salt Lake City, Utah. (58). 1915. H

Cummings, Carlos E., M. D., Secretary, Buffalo Society of Natural History, Buffalo, N. Y. (57). F

Cummings, Mrs. Charles A., 230 Clarendon St., Boston, Mass. (60).

*Cummings, Marshall Baxter, Ph. D., Professor of Horticulture, Vermont Agricultural Experiment Station, Burlington, Vt. (60). 1911. G

*Cummins, George Wyckoff, M. D., Belvidere, N. J. (50). 1911. F G K

Cunnane, William B., M. D., Ph. D., Santa Barbara, Cal. (60). K

Cunningham, Gilbert Cameron, Vermont Agricultural Experiment Station, Burlington, Vt. (63). G

*Cunningham, Susan J., Sc. D., 107 North 34th St., Philadelphia, Pa. (38). 1901. A

Cunningham, W. F., 209 Cobb Building, Seattle, Wash. (66).

Cuntz, Johannes H., 325 Hudson St., Hoboken, N. J. (36).

CURIE, CHARLES, 22 William St., New York, N. Y. (57).

Currie, Charles A., M. D., P. O. Box 1606, Philadelphia, Pa. (48). F K

Currie, Thomas R., M. D., 512 West Lehigh Ave., Philadelphia, Pa. (60). K

Currier, Louis Wade, Professor of Geology, University of Idaho, Moscow, Idaho. (66). E

Curry, Samuel Silas, Ph. D., 60 Bay State Road, Boston, Mass. (65).

Curtis, Bracey, E. M., Nogales, Ariz. (60). D

*Curtis, Carlton Clarence, Ph. D., Professor of Botany, Columbia University, New York, N. Y. (51). 1903. G

Curtis, Edward S., 709 2d Ave., Seattle, Wash. (64).

Curtis, G. Lenox, M. D., 71 Central Park, West, New York, N. Y. (51). K

*Curtis, George Carroll, 11 Weyanoke St., Boston, Mass. (52). 1905. E

Curtis, George M., Assistant Professor of Anatomy, Vanderbilt Medical School, Nashville, Tenn. (64). **K**

Curtis, George W., Plansifter Milling Co., Oklahoma City, Okla. (50).

*Curtis, Heber Doust, Ph. D., Lick Observatory, Mt. Hamilton, Cal. (58). 1910. **A**

Curtis, Lester, 1031 East 50th St., Chicago, Ill. (58).

*Curtis, Mattoon Monroe, Ph. D., Professor of Philosophy, Western Reserve University, Cleveland, Ohio. (50). 1906. **H I**

Curtis, Maynie Rose, Maine Agricultural Experiment Station, Orono, Me. (65). **F**

Curtis, Ralph W., Landscape Art Department, New York State College of Agriculture, Ithaca, N. Y. (61). **G**

*Curtis, Winterton Conway, Ph. D., Professor of Zoology, University of Missouri, Columbia, Mo. (53). 1905. **F**

*Curtiss, Charles Franklin, Sc. D., Director, Iowa Agricultural Experiment Station, Ames, Iowa. (54). 1911. **G**

*Curtiss, Richard Sydney, Ph. D., Throop College of Technology, Pasadena, Cal. (52). 1903. **C**

Cushing, Charles S., 821 First National Bank Building, San Francisco, Cal. (65).

*Cushing, Harvey, M. D., Professor of Surgery, Harvard Medical School, Boston, Mass. (52). 1906. **K**

Cushing, Hayward W., M. D., 70 Commonwealth Ave., Boston, Mass. (61). **K**

*Cushing, Henry Platt, Ph. D., Professor of Geology, Adelbert College, Cleveland, Ohio. (33). 1888. **E**

Cushing, William Erastus, 2908 Euclid Ave., Cleveland, Ohio. (63). **I**

*Cushman, Allerton Seward, Ph. D., Director, Institute of Industrial Research, Washington, D. C. (50). 1901. **C D E F**

Cushman, Gerald R., 637 West North Ave., Baltimore, Md. (61). **F**

Cusick, Laurence F., M. D., 99 Newbury St., Boston, Mass. (60). **K**

*Cutler, Elbridge Gerry, M. D., 214 Beacon St., Boston, Mass. (54). 1906. **K**

Cutter, George, E. E., Broad Branch Road, Washington, D. C. (58). **D**

Cutter, Irving Samuel, M. D., University of Nebraska College of Medicine, Omaha, Nebr. (50). **G K**

*Dabney, Charles William, Ph. D., LL. D., President, University of Cincinnati, Cincinnati, Ohio. (47). 1901. **C I L M**

Dabney, Thomas Gregory, C. E., Clarksdale, Miss. (60). **D**

*Dachnowski, Alfred Paul, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1909. **G**

*da Costa Sena, Dr. Joaquim Candido, Director, School of Mines, Ouro Preto, Brazil, S. A. (54). 1906. **E**

*Dadourian, Haroutune Mugurditch, Ph. D., 8 Prospect Place, New Haven, Conn. (60). 1910. **A B**

Daecke, V. A. Eric, 2008 North 3d St., Harrisburg, Pa. (58). **F**

Daft, Leo, E. E., Rutherford, N. J. (58). **D**

Daggett, Frank S., Museum, Exposition Park, Los Angeles, Cal. (65).

Daggette, Alvin S., M. D., 400 South Craig St., Pittsburgh, Pa. (50). **F K**

*Dahlgren, Ulric, Ph. D., Professor of Biology, Princeton University, Princeton, N. J. (51). 1905. **F**

Dahm, Thomas M., Science Hall, Madison, Wis. (58). **A B D**

Daines, Lyman L., Logan, Utah. (66).

*Dains, Frank Burnett, Ph. D., Associate Professor of Chemistry, University of Kansas, Lawrence, Kans. (56). 1908. **C**

Dakin, Channing E., M. D., Century Block, Mason City, Iowa. (58). **E H I K**

*Dakin, Henry Drysdale, Sc. D., 819 Madison Ave., New York, N. Y. (62). 1915. **C**

*Dalaker, Hans H., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (62). 1915. **A D**

Daland, William Clifton, D. D., President, Milton College, Milton, Wis. (52). **I**

Dalcour, Gustave T., Ellicott City, Md. (60).

*Dales, Benton, Ph. D., Professor of Analytical Chemistry, University of Nebraska, Lincoln, Nebr. (56). 1908. **C**

*Dall, William Healey, Sc. D., Smithsonian Institution, Washington, D. C. (18). 1874. **F G**

Dallenbach, Karl M., Orchard Ave. and Fairmont Boulevard, Eugene, Oregon. (66). **H**

*Dalrymple, William Haddock, Professor of Veterinary Science, Louisiana State University, Baton Rouge, La. (50). 1911. **K**

Damon, John Churchill, E. E., Utah Power and Light Co., Kearns Building, Salt Lake City, Utah. (60). **D**

*Dana, Charles Loomis, M. D., LL. D., 53 West 53d St., New York, N. Y. (46). 1899. **H K**

*Dana, Edward Salisbury, Ph. D., Professor of Physics, Yale University, New Haven, Conn. (23). 1875. **B E**

*Dana, Samuel Trask, U. S. Forest Service, Washington, D. C. (64). 1915. **G M**

*Danforth, Charles Haskell, Washington University Medical School, St. Louis, Mo. (63). 1915. **F**

*Daniel, J. Frank, Ph. D., Assistant Professor of Zoology, University of California, Berkeley, Cal. (60). 1913. **F H**

*Daniel, John, Professor of Physics, Vanderbilt University, Nashville, Tenn. (50). 1911. **B**

*Daniels, Francis, Ph. D., Professor of Romance Languages, Wabash College, Crawfordsville, Ind. (60). 1911. **G**

Daniels, H. A., 613 Prospect St., Cleveland, Ohio. (63).

*Daniels, Joseph, Assistant Professor of Mining Engineering, University of Washington, Seattle, Wash. (61). 1914. **D E L**

Danielson, Florence Harris, Department of Biology, Brown University, Providence, R. I. (65). **F**

Darling, Chester A., Ph. D., Professor of Biology and Geology, Allegheny College, Meadville, Pa. (65). **E G**

*Darling, Eugene Abraham, M. D., 138 Brattle St., Cambridge, Mass. (62). 1911. **K**

Darling, John Henry, C. E., care Lincoln Hotel, 13th and Locust Sts., Philadelphia, Pa. (60). **D**

Darling, Miss Nancy, R. F. D. 2, Woodstock, Vermont. (64).

Darlington, Henry Townsend, Assistant Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (65). **G M**

*Darlington, Thomas, M. D., 27 Washington Square, New York, N. Y. (57). 1908. **K**

Darrin, Mrs. Elizabeth Reid, 523 West 121st St., New York, N. Y. (66).

Dart, Carlton Rollin, C. E., 706 Greenleaf Ave., Wilmette, Ill. (60). **D**

*Darton, Nelson Horatio, U. S. Geological Survey, Washington, D. C. (37). 1893. **E**

Dascher, Henry, 339 East 26th St., New York, N. Y. (58). **C**

Dashiell, W. W., M. E., 848 St. Nicholas Ave., New York, N. Y. (60). **D**

Daugherty, Lewis Sylvester, Ph. D., 223 South Orange St., Cameron, Mo. (53). **F**

*d'Auria, Luigi, 203 St. Marks Square, Philadelphia, Pa. (51). 1903. **A D**

*Davenport, Charles Benedict, Ph. D., Director, Station for Experimental Evolution, Cold Spring Harbor, Long Island, N. Y. (46). 1898. **F G**

Davenport, Mrs. Elizabeth Braxton, Northern Drive, Brattleboro, Vt. (57). **F G**

*Davenport, Eugene, LL. D., Dean, College of Agriculture, University of Illinois, Urbana, Ill. (39). 1909. **G M**

David, William King, 829 West Cambria St., Philadelphia, Pa. (60). **A**

*Davidson, James Grant, Ph. D., Professor of Physics, McGill University College, Vancouver, B. C., Canada. (58). 1910. **B L**

*Davidson, Robert James, Professor of Chemistry, Virginia Polytechnic Institute, Blacksburg, Va. (40). 1911. **C**

Davies, Clara A., 362 Hudson Ave., Newark, Ohio. (63).

Davies, Julien Tappan, 34 Nassau St., New York, N. Y. (57). **I**

*Davis, Andrew McFarland, 10 Appleton St., Cambridge, Mass. (35). 1906. **H**

Davis, Arthur Eldorus, M. D., Arbala, Texas. (65). **K**

*Davis, Benjamin Marshall, Ph. D., Professor of Agricultural Education, Miami University, Oxford, Ohio. (65). 1915. **G M**

*Davis, Bergen, Ph. D., Associate Professor of Physics, Columbia University, New York, N. Y. (49). 1905. **B**

*Davis, Bradley Moore, Ph. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (45). 1897. **G**

*Davis, Charles Albert, Ph. D., U. S. Bureau of Mines, Washington, D. C. (60). 1911. **E**

Davis, Charles Gilbert, M. D., 4630 Grand Boulevard, Chicago, Ill. (51). **K L**

*Davis, Charles Henry, E. E., C. E., South Yarmouth, Mass. (58). 1915. D

Davis, Charles P., P. O. Box 1590, Springfield, Mass. (61).

Davis, Daniel, 626 No. Broadway, Baltimore, Md. (62).

*Davis, David John, M. D., 721 Elmwood Ave., Wilmette, Ill. (60). 1911. K

Davis, Donald Walton, Ph. D., De Pauw University, Greencastle, Ind. (55). F G

Davis, Edward E., 47 West Main St., Norwich, N. Y. (50). E G

*Davis, Ellery Williams, Ph. D., Professor of Mathematics, University of Nebraska, Lincoln, Nebr. (55). 1906. A

Davis, Grace Evangeline, Associate Professor of Physics, Wellesley College, Wellesley, Mass. (57). B

*Davis, Harvey Nathaniel, Ph. D., Assistant Professor of Physics, Yale University, Cambridge, Mass. (60). 1910. A B

*Davis, Herbert Burnham, Ph. D., Principal, Pittsburgh Training School for Teachers, 6433 Monitor St., Pittsburgh, Pa. (60). 1911. H

*Davis, Herbert Spencer, Ph. D., Professor of Zoology and Bacteriology, University of Florida, Gainesville, Fla. (57). 1911. F

*Davis, Herman Stearns, Ph. D., Andover Terrace, Schenley Heights, Pittsburgh, Pa. (50). 1901. A D I

Davis, Horace, LL. D., 1800 Broadway, San Francisco, Cal. (65). I

*Davis, John Jefferson, M. D., Biology Building, Madison, Wis. (31). 1899. G K

*Davis, John June, Experiment Station Building, La Fayette, Ind. (58). 1914. F

Davis, John Staige, M. D., 1200 Cathedral St., Baltimore, Md. (60). K

*Davis, Kary Cadmus, Ph. D., Director, Knapp School of Country Life, Nashville, Tenn. (50). 1911. B C D G L

Davis, Lincoln, M. D., 217 Beacon St., Boston, Mass. (60). K

*Davis, Nathan Smith, M. D., 8 East Huron St., Chicago, Ill. (50). 1909. F G K

*Davis, Nathaniel French, LL. D., Professor of Pure Mathematics, Brown University, Providence, R. I. (54). 1906. A

*Davis, William Harper, Librarian, Public Service Corporation, Newark, N. J. (50). 1903. H I

*Davis, William Morris, Sc. D., Ph. D., Emeritus Professor of Geology, Harvard University, Cambridge, Mass. (33). 1885. B E

*Davis, William Thompson, 146 Stuyvesant Place, New Brighton, N. Y. (57). 1911. G

*Davison, Alvin, Ph. D., Professor of Biology, Lafayette College, Easton, Pa. (49). 1905. F

*Davison, John Mason, care I. C. Goodridge, The Upham, Santa Barbara, Cal. (38). 1911. C

*Davisson, Schuyler Colfax, Sc. D., Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1908. A

*DAVY, JOSEPH BURTT, Transvaal Maize Breeding Station, Burttholm, Vereeniging, South Africa. (51). 1903. G

Dawson, Jean, Ph. D., Normal School, Stearns Road, Cleveland, Ohio. (62). F

*Dawson, Percy Millard, M. D., University of Wisconsin, Madison, Wis. (50). 1903. F K

Dawson, William Leon, Los Colibris, Mission Canon, Santa Barbara, Cal. (65).

Day, Artemas L., Department of Zoology, University of the Philippines, Manila, P. I. (63). F

*Day, Edward C., Syracuse University, Syracuse, N. Y. (65). 1915. F

Day, Leonard H., Hollister, Cal. (58). F

*DAY, WILLIAM SCOFIELD, Ph. D., 220 Hobart Ave., Summit, N. J. (50). 1901. B

*Dean, Arthur Lyman, Ph. D., President, College of Hawaii, Honolulu, Hawaii. (53). 1906. C D

*Dean, Bashford, Ph. D., Professor of Vertebrate Zoology, Columbia University, New York, N. Y. (54). 1906. F

Dean, Charles Clemon, Bluffton, Ind. (64). G

Dean, Charles Ray, The Burlington, Washington, D. C. (63).

Dean, George Adams, Professor of Entomology, Kansas State Agricultural College, Manhattan, Kans. (65). G

Dean, John Candee, 1005 North Pennsylvania St., Indianapolis, Ind. (64). A

*Dean, Rollin Colegrove, 26 Prospect St., Summit, N. J. (61). F

*Deans, John Sterling, Chief Engineer, Phoenix Bridge Co., Phoenixville, Pa. (51). 1915. D E

*Dearborn, George Van Ness, M. D., Ph. D., Mason St., Cambridge, Mass. (52). 1906. K

*Dearborn, Ned, Sc. D., Linden, Md. (62). 1915. F

*Dearborn, Walter Fenno, Ph. D., Associate Professor of Education, Harvard University, Cambridge, Mass. (58). 1910. H L

Dearing, Charles Thornton, U. S. Department of Agriculture, Washington, D. C. (64). G

Deavitt, H. M., 160 North Fifth Ave., Chicago, Ill. (58). C

*De Barr, Edwin, Ph. D., Director, School of Chemical Engineering, University of Oklahoma, Norman, Okla. (61). 1911. C

De Baufre, William L., E. E., 84 Market St., Annapolis, Md. (60). D

de Bey, Cornelia Bernarda, M. D., 4581 Oakenwald Ave., Chicago, Ill. (60). K

*Decker, Charles Elijah, Professor of Geology and Biology, Allegheny College, Meadville, Pa. (58). 1911. E F

*Decker, Floyd Fiske, Ph. D., Assistant Professor of Mathematics, Syracuse University, Syracuse, N. Y. (58). 1909. A

de Coppet, Edward J., 314 West 85th St., New York, N. Y. (57).

De Cou, E. E., 1135 Mill St., Eugene, Oregon. (66).

Dederick, L. S., P. O. Box 105, Princeton, N. J. (64).

Deens, Miss Anna M., 7 Roselawn Terrace, Pittsburgh, Pa. (50). **F G L**

Deere, Emil Olof, Professor of Biology, Bethany College, Lindsborg, Kans. (60). **E F G K**

de Fodor, Etienne, E. E., Budapest Gen. Electric Co., VII Kazinczy-utcza 21, Budapest, Hungary. (60). **D**

*Defoe, Luther Marion, Professor of Mechanics, University of Missouri, Columbia, Mo. (58). 1915. **A B D**

de Forest, Robert Weeks, LL. D., 30 Broad St., New York, N. Y. (49). **I**

*Defren, George, 289 Park St., Newton, Mass. (60). 1911. **C**

de Geofroy, George, Metropolitan Club, Washington, D. C. (55). **C**

*Deghuee, Joseph Albert, Ph. D., 39 West 38th St., New York, N. Y. (40). 1900. **C**

*Dehn, William Maurice, Ph. D., Professor of Chemistry, University of Washington, Seattle, Wash. (58). 1915. **C**

*Deimel, Richard Francis, Assistant Professor of Mechanics, Stevens Institute, Hoboken, N. J. (52). 1906. **A B D**

De Jong, Conrad, M. D., Orange City, Iowa. (58). **K**

de Jong, J. T. W., Kentucky Tobacco Product Co., Louisville, Ky. (65).

*De Kalb, Courtenay, E. M., Tucson, Ariz. (54). 1911. **D**

*Delabarre, Edmund Burke, Ph. D., Professor of Psychology, Brown University, Providence, R. I. (49). 1901. **H I**

*Delafield, Maturin L., Jr., care Morgan Harjes and Co., Paris, France. (43). 1913. **G I M**

De Landero, Carlos F., General Manager, Pachuca and Real del Monte Mining Co., Pachuca, Mexico. (36). **B C**

*Delano, Frederic Adrian, President, Denver and Rio Grande R. R., 1414 Transportation Building, Chicago, Ill. (50). 1906. **D**

Delany, Patrick Bernard, E. E., Nantucket, Mass. (50). **D**

*Dellenbaugh, Frederic Samuel, 226 West 78th St., New York, N. Y. (51). 1905. **H**

*Dellinger, Oris Polk, Ph. D., Professor of Biology, Normal School, Pittsburg, Kans. (58). 1911. **F**

De Loach, Robert J. H., Director, Georgia Experiment Station, Experiment, Ga. (58). **G I L**

*De Long, Ira Mitchell, Professor of Mathematics, University of Colorado, Boulder, Colo. (60). 1910. **A**

*De Loubat, Le Duc, 53 rue Dumont d'Urville, Paris, France. (46). 1897. **H**

del Rosario, José I., 530 P Gomez, Sta. Cruz, Manila, P. I. (61).

Delwiche, Edmond Joseph, Assistant Professor of Agronomy, University of Wisconsin, Madison, Wis. (63). **G M**

*Deming, Raymond Mark, Case School of Applied Science, Cleveland, Ohio. (63). 1915. **A D**

Demming, Henry Clay, Consulting Geologist, Mineralogist and Chemist, P. O. Box 5, Harrisburg, Pa. (54). **C E**

Demmler, Paul E., 5414 Black St., E. E., Pittsburgh, Pa. (58). **C**

Denig, Blanche A., M. D., Hotel Bristol, Copley Square, Boston, Mass. (60). **K**

*Denison, Dr. Francis Napier, Dominion Meteorological Office, Victoria, B. C., Canada. (63). 1915. **A B**

*Dennett, William Sawyer, M. D., 8 East 49th St., New York, N. Y. (52). 1906. **A K**

*Dennis, David Worth, Ph. D., Professor of Biology, Earlham College, Earlham, Ind. (50). 1901. **F G**

*Dennis, Louis Munroe, Professor of Inorganic Chemistry, Cornell University, Ithaca, N. Y. (43). 1895. **C**

Dennis, Martin, 859 Summer Ave., Newark, N. J. (63).

Depew, Hon. Chauncey Mitchell, 27 West 54th St., New York, N. Y. (57). **I**

de Raasloff, Harold, C. E., 471 Park Ave., New York, N. Y. (51). **D**

Derby, George McClellan, Lieut.-Colonel, Corps of Engineers, U. S. A., Retired, U. S. Engineer Office, New Orleans, La. (50). **D**

*Derby, Orville Adelbert, Servico Geologico E Mineralogico de Brazil, Rio de Janeiro, Brazil, S. A. (39). 1890. **E**

*Derick, Carrie Matilda, Professor of Morphological Botany, McGill University, Montreal, Canada. (57). 1909. **G**

Derickson, Samuel Hoffman, Director, Tyrone Biological Laboratory, Lebanon Valley College, Annville, Pa. (64). **F G**

Derivaux, Robert C., M. D., U. S. Public Health Service, Washington, D. C. (64). **K**

Derrick, Calvin, Waterman, Cal. (66).

Dery, D. George, Catasauqua, Pa. (55). **C G**

*de Schweinitz, George Edmund, M. D., LL. D., Professor of Ophthalmology, University of Pennsylvania, Philadelphia, Pa. (54). 1911. **K L**

Des Jardins, Benjamin M., 1200 N St., N. W., Washington, D. C. (65).

Desmond, G., Chief Government Veterinarian, Adelaide, South Australia. (60). **K**

de Sta Cecelia, J. Felippe, E. E., Rua Director 7, Oura Preto, Minas, Brazil, S. A. (60). **D**

Detlefson, John A., Sc. D., Ph. D., Assistant Professor of Genetics, University of Illinois, Urbana, Ill. (64). **F**

*Detmers, Frederica, Ohio State University, Columbus, Ohio. (58). 1915. **G**

*Deussen, Alexander, University of Texas, Austin, Texas. (62). 1915. **E**

Devereux, W. L., 415 Grape St., Syracuse, N. Y. (60). **F**

Dewey, Frederick Archibald, P. O. Box 121, Bryn Mawr, Pa. (65). **I**

Dewey, Grace, M. D., 1123 West State St., Jacksonville, Ill. (60). K
*Dewey, John, Ph. D., LL. D., Professor of Philosophy, Columbia University, New York, N. Y. (58). 1909. L
*Dewey, Lyster Hoxie, U. S. Department of Agriculture, Washington, D. C. (40). 1899. G
Dewing, Dr. Frances Rousmaniere, 27 Old Sloan Hall, New Haven, Conn. (58). K
DeWitt, Charles H., Professor of Histology and Bacteriology, Valparaiso University, Valparaiso, Ind. (58). K
*De Wolf, Frank Walbridge, Director, State Geological Survey of Illinois, Urbana, Ill. (57). 1909. E
*Dexter, Edwin Grant, Ph. D., University of Porto Rico, San Juan, Porto Rico. (52). 1905. K
Dexter, John S., Olivet, Mich. (61). F
DEY, ANTHONY, 69 Liberty St., New York, N. Y. (57).
de Zeeuw, Richard, Ph. D., Assistant Professor of Botany, Michigan Agricultural College, East Lansing, Mich. (63). G
Diamant, L., 1528 Sutter St., San Francisco, Cal. (65).
Dice, Lee Raymond, Department of Zoology, Kansas State Agricultural College, Manhattan, Kansas. (65). F
Dick, Fred. J., C. E., Point Loma, Cal. (65). D
Dick, George Frederick, M. D., 629 South Wood St., Chicago, Ill. (63). K
Dickerson, Charles E., East Northfield, Mass. (60).
*Dickerson, Edgar Leek, Nutley, N. J. (62). 1915. F
Dickerson, Edward Nicoll, 141 Broadway, New York, N. Y. (49).
Dickerson, Mary Cynthia, Department of Woods and Forestry, American Museum of Natural History, New York, N. Y. (60). F M
Dickerson, Roy E., University of California, Berkeley, Cal. (65). E G
*Dickie, George William, Marvin Building, 24 California St., San Francisco, Cal. (54). 1915. D
Dickinson, Breese M., M. D., 5711 Elgin Ave., Pittsburgh, Pa. (60). K
Dickinson, Charles, Lock Box 788, Central Station, Chicago, Ill. (58).
*Dickinson, Hobart Cutler, Ph. D., Bureau of Standards, Washington, D. C. (60). 1910. B
Dickson, Archibald A. C., E. M., Kodarma E. I. Ry., Gaya District, India. (60). B
Dickson, Ernest C., 2294 Broderick St., San Francisco, Cal. (65).
Dickson, Samuel, LL. D., 901 Clinton St., Philadelphia, Pa. (65).
*Didier, Paul, C. E., B. & O. R. R. Co., N. S., Pittsburgh, Pa. (60). 1915. D
*Diemer, Hugo, Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. (49). 1911. D L
Dietz, William G., M. D., 21 North Vine St., Hazleton, Pa. (54). K
*Dike, Paul Harrison, 1610 University Ave., Columbia, Mo. (60). 1910. B
*Diller, Joseph Silas, U. S. Geological Survey, Washington, D. C. (52). 1903. E

Dillman, Arthur C., U. S. Experiment Station, Newell, S. D. (63). G
Dilworth, James A., M. D., Aberdeen, Miss. (60). K
*Dimick, Chester Edward, 396 Lowell St., Manchester, N. H. (60). 1911. A
*Dimmock, George, Ph. D., 531 Berkshire Ave., Springfield, Mass. (22). 1874. F
*Dimock, George E., 907 North Broad St., Elizabeth, N. J. (57). 1913.
Dimon, Miss Abigail Camp, 367 Genesee St., Utica, N. Y. (50). F K
Dingledine, Raymond Carlyle, P. O. Box 225, University, Va. (65). B
Dinkey, Alva Clymer, E. E., President, Carnegie Steel Co., Pittsburgh, Pa. (50). D
Dinwiddie, Albert Bledsoe, Ph. D., Dean, Department of Arts and Sciences, Tulane University, New Orleans, La. (63).
Disbrow, William S., M. D., 151 Orchard St., Newark, N. J. (51). G K
Disston, William D., Norwood Ave., Chestnut Hill, Philadelphia, Pa. (66).
*Ditman, Norman Edward, M. D., Ph. D., 24 East 48th St., New York, N. Y. (58). 1911. K
Diven, John M., C. E., Superintendent of Water Works, Troy, N. Y. (60). D
*Dixon, Roland Burrage, Ph. D., Assistant Professor of Anthropology, Peabody Museum, Cambridge, Mass. (46). 1901. H
Dixon, Sam H., State Department of Agriculture, Houston, Texas. (65). G M
*Dixon, Samuel Gibson, M. D., LL. D., President, Academy of Natural Sciences, Philadelphia, Pa. (50). 1906. F K
*Doan, Frank Carleton, Ph. D., 4 Waldron Ave., Summit, N. J. (58). 1911. H
Doan, Martha, Vassar College, Poughkeepsie, N. Y. (60). A
*Doane, Prof. Rennie Wilbur, 527 Homer Ave., Palo Alto, Cal. (60). 1914. F
DOBBIN, FRANK, P. O. Box 197, Shushan, N. Y. (64).
*Dock, George, M. D., Sc. D., Professor of Medicine, Washington University Medical School, St. Louis, Mo. (51). 1903. K
Dodds, Gideon Stanhope, Ph. D., Professor of Zoology, University of Missouri, Columbia, Mo. (57). F
Dodds, Robert, M. D., 144 Oakwood Boulevard, Chicago, Ill. (58). K
Dodge, Bernard O., Ph. D., Columbia University, New York, N. Y. (66).
*Dodge, Charles Wright, Professor of Biology, University of Rochester, Rochester, N. Y. (39). 1898. F G K
Dodge, Homer L., Department of Physics, State University of Iowa, Iowa City, Iowa. (66). B
*Dodge, Raymond, Ph. D., Professor of Psychology, Wesleyan University, Middletown, Conn. (58). 1911. H
*Dodge, Richard Elwood, Professor of Geography, Teachers College, Columbia University, New York, N. Y. (49). 1901. E L
Dodman, Alfred C., Jr., 22 Oakridge Ave., Summit, N. J. (50).
*Dodson, John Milton, M. D., Professor of Medicine and Dean of Students, Rush Medical College, Chicago, Ill. (54). 1906. C K

*Dodson, William Rufus, Professor of Agriculture and Director, State Experiment Station, Baton Rouge, La. (54). 1906. G M

Doering, Prof. C. E., Bryn Athyn, Pa. (60). A

Doherty, Henry Latham, M. E., 60 Wall St., New York, N. Y. (48). B D

*Dohme, Alfred R. L., Ph. D., 303 West Pratt St., Baltimore, Md. (60). 1911. C

*Dohmen, Franz Joseph, Ph. D., 21 Walker St., Cambridge, Mass. (57). 1910. A

Dole, Rev. Charles Fletcher, D. D., 14 Roanoke Ave., Jamaica Plain, Mass. (50). I

*Doll, Edgar A., Vineland Training School, Vineland, N. J. (64). 1914. H

*Dolley, David Hough, M. D., Professor of Bacteriology and Pathology, University of Missouri, Columbia, Mo. (64). 1915. K

Dolley, William Lee, Jr., Biological Laboratory, Randolph-Macon College, Ashland, Va. (65). F

Dolson, Grace Neal, Ph. D., Assistant Professor of Philosophy, Smith College, Northampton, Mass. (60). H

*Dolt, Maurice Louis, Ph. D., Professor of Organic and Analytical Chemistry, North Dakota Agricultural College, Fargo, N. D. (58). 1911. C

Donaghho, J. S., Professor of Mathematics, College of Hawaii, Honolulu, Hawaii. (66). A

*Donaldson, Henry Herbert, Sc. D., Ph. D., Professor of Neurology, Wistar Institute of Anatomy, Philadelphia, Pa. (54). 1906. K

Dondlinger, Peter Tracy, Ph. D., Box 82, Stamford, Conn. (58). I

Doneghue, Ray C., Professor of Agronomy, Agricultural Experiment Station, Fargo, N. D. (66). M

Donlon, Dr. A. J., S. J., Georgetown University, Washington, D. C. (62).

Donovan, Joseph L., University of Santa Clara, Santa Clara, Cal. (66).

Doolittle, Alfred A., 1331 Belmont St., Washington, D. C. (62).

*Doolittle, Charles Leander, C. E., Sc. D., LL. D., 4510 Walnut St., Philadelphia, Pa. (25). 1885. A

*Doolittle, Eric C. E., Professor of Astronomy, University of Pennsylvania, Philadelphia, Pa. (58). 1911. A

*Doolittle, Roscoe Edward, 109 Hillside Ave., Glen Ridge, N. J. (60). 1911. C

Doran, Edwin Wortham, Ph. D., Benton, La. (54). F

Dorne, Mrs. Nelly Waterhouse, care California Academy of Sciences, 343 Sansome St., San Francisco, Cal. (65).

*Dorner, Herman Bernard, Assistant Professor of Floriculture, University of Illinois, Urbana, Ill. (57). 1911. G

Dorr, Henry I., M. D., 128 Summer St., Somerville, Mass. (60). K

*Dorset, Marion, M. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. C K

*Dorsey, George Amos, Ph. D., LL. D., Field Museum of Natural History, Chicago, Ill. (39). 1892. H

*Dorsey, Herbert Grove, Ph. D., 1034 Grand Ave., Dayton, Ohio. (51). 1909. B

Dorsey, Maxwell Jay, Ph. D., University Farm, St. Paul, Minn. (64). G

*Dorsey, N. Ernest, Ph. D., Bureau of Standards, Washington, D. C. (46). 1898. B

Doster, James Jarvis, Professor of Philosophy and Education, University of Alabama, Tuscaloosa, Ala. (61). L

Doter, S. B., University of Nevada, Reno, Nev. (65).

Doty, Paul, President and General Manager, St. Paul Gas Light Co., St. Paul, Minn. (43). D

*Doubt, Thomas Eaton, Ph. D., 286 Laurel Ave., Chicago, Ill. (48). 1909. B

*Doughty, Howard Waters, Ph. D., Associate Professor of Chemistry, Amherst College, Amherst, Mass. (58). 1911. C

Doughty, William Henry, Jr., M. D., 822 Greene St., Augusta, Ga. (58). K

Douglas, J. S., Bin 7, Bakersfield, Cal. (63).

*Douglas, James, LL. D., 99 John St., New York, N. Y. (49). 1905. E

Douglass, Alfred, Clyde St., Brookline, Mass. (57).

*Douglass, Andrew Ellicott, Sc. D., Professor of Physics and Astronomy, University of Arizona, Tucson, Ariz. (58). 1913. A B

Douglass, George Lyon, 108 So. La Salle St., Chicago, Ill. (55). I

Douglass, Thomas, M. D., Ozark, Ark. (60). K

Doulton, Mrs. Leslie, P. O. Box 302, Santa Barbara, Cal. (61). H

Douthitt, Herman, Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (65). F

*Douty, Daniel Ellis, 340 Hudson St., New York, N. Y. (58). 1910. B

*Dow, Edmund Le Roy, M. D., 49 West 57th St., New York, N.Y. (57). 1908. K L

Dow, Herbert H., Midland, Mich. (47). C

*Dowd, Jerome, University of Oklahoma, Norman, Okla. (55). 1906. H I

*Dowell, Philip, Ph. D., 86 Bond St., Port Richmond, N. Y. (50). 1911. G

Downey, James H., M. D., 28 Green St., Gainesville, Ga. (60). K

Downing, Bertha C., M. D., 4 Downing St., Worcester, Mass. (65). K

*Downing, Eliot Rowland, Ph. D., Associate Professor of Natural History, University of Chicago, Chicago, Ill. (51). 1911. F L

Downing, G. J., Moscow, Idaho. (66).

Downs, Norton, M. D., Fordhooke Farm, Three Tuns, Pa. (52). K

Draege, Mathilde, 924 Madison Ave., New York, N. Y. (60). E

Drake, Bryant S., Chemical Engineer, 5930 Colby St., Oakland, Cal. (60). C

Drake, George Silas, Jr., M. D., 405 Humboldt Building, St. Louis, Mo. (60). K

Drake, Grandison W., M. D., Hollins Institute, Hollins, Va. (60). K

*Drake, Noah Fields, Ph. D., Professor of Geology and Mining, University of Arkansas, and State Geologist, Geological Survey of Arkansas, Fayetteville, Ark. (57). 1909. E

Drake, William Allen, 946 Cottage Grove Ave., Dayton, Ohio. (64).

Drane, Walter Hugh, Professor of Civil Engineering, Cumberland University, Lebanon, Tenn. (58). **D**

*DRAPER, DANIEL, Ph. D., Hastings upon Hudson, N. Y. (29). 1881. **A B D F**

*Draper, Mrs. Henry, 271 Madison Ave., New York, N. Y. (49). 1906.

*Dresbach, Melvin, M. D., Assistant Professor of Pharmacology, Cornell University, Ithaca, N. Y. (60). 1911. **K**

Drescher, William A. E., Bausch & Lomb Optical Co., Rochester, N. Y. (41). **F**

*Dresden, Arnold, Ph. D., 2114 Vilas St., Madison, Wis. (60). 1911. **A**

*Dresser, John Alexander, 327 Victoria Ave., Westmount, Quebec, Canada. (63). 1913.

*Dresslar, Fletcher Bascom, Ph. D., Professor of School Hygiene, George Peabody College, Nashville, Tenn. (65). 1915. **L**

Drew, Frank C., Balboa Building, San Francisco, Cal. (64).

*Drew, Gilman Arthur, Ph. D., Asst. Director, Marine Biological Laboratory, Woods Hole, Mass. (54). 1906. **F**

Drew, Lena S., Woods Hole, Mass. (65). **F**

*Dreyer, George Peter, Ph. D., Professor of Physiology and Physiological Chemistry, University of Illinois, Urbana, Ill. (58). 1909. **C K**

*Drinker, Henry Sturgis, LL. D., President, Lehigh University, South Bethlehem, Pa. (55). 1912. **D I**

*DROPPERS, GARRETT, Professor of Economics, Williams College, Williamstown, Mass. (50). 1901. **I**

*Drowne, Henry B., C. E., Asst. Highway Engineer, Columbia University, New York, N. Y. (60). 1915. **D**

Drucker, Aaron P., 6050 Monroe Ave., Chicago, Ill. (61).

Drum, John S., Savings Union Bank and Trust Co., San Francisco, Cal. (65).

*Drummond, Isaac Wyman, Ph. D., 436 West 22d St., New York, N. Y. (36). 1911. **C**

*Drushel, J. Andrew, Professor of Nature Study and Geology, Harris Teachers College, St. Louis, Mo. (58). 1911. **C E L**

*Drushel, William Allen, 329 Ellsworth Ave., New Haven, Conn. (61). 1914. **C**

*Dryer, Charles Redway, M. D., Fort Wayne, Ind. (50). 1903. **E L**

Duane, Alexander, M. D., 149 East 37th St., New York, N. Y. (54). **A H K**

*Duane, William, Ph. D., Harvard Medical School, Boston, Mass. (50). 1901. **B**

Dublin, Louis I., Ph. D., 1 Madison Ave., New York, N. Y. (58). **F G H K**

*DUBOIS, AUGUSTUS JAY, Ph. D., Professor of Civil Engineering, Sheffield Scientific School, New Haven, Conn. (30). 1882. **A B D**

Du Bois, Ernest, E. M., P. O. Box 5115, Mexico, D. F., Mexico. (60). **D**

*Dubois, Norman Armin, Ph. D., Case School of Applied Science, Cleveland, Ohio. (58). 1911. **C**

*Du Bois, Patterson, 401 South 40th St., Philadelphia, Pa. (33). 1887. H I L

*Du Bois, W. E. Burghardt, Ph. D., 70 Fifth Ave., New York, N. Y. (50). 1905. I

*Duckwall, Edward Wiley, Bacteriologist and Food Specialist, Aspinwall, Pa. (53). 1911. C

*Dudgeon, Prof. Winfield, University of Chicago, Chicago, Ill. (62). 1915. F

Dudley, William H., Platteville, Wis. (62). F

*Duerden, James Edwin, Ph. D., Professor of Zoology, Rhodes University College, Grahamstown, South Africa. (52). 1905. F G K L

*Dugan, Raymond Smith, Ph. D., Assistant Professor of Astronomy, Princeton University Observatory, Princeton, N. J. (55). 1907. A B

Dugan, William James, M. D., 2224 South Broad St., Philadelphia, Pa. (57). K

Duggan, Malone, M. D., Gibbs Building, San Antonio, Tex. (60). K

*Duggar, Benjamin Minge, Ph. D., Missouri Botanical Garden, St. Louis, Mo. (45). 1900. G

*Duggar, John Frederick, Director, Agricultural Experiment Station, Auburn, Ala. (65). 1914. G L

*Duke, Prof. Frank Williamson, Virginia Mechanics Institute, Richmond, Va. (50). 1906. A

Dukes, C. A., M. D., 6000 Claremont Ave., Oakland, Cal. (66). K

*Dumble, Edwin Theodore, Consulting Geologist, Southern Pacific Co., 2003 Main St., Houston, Tex. (37). 1891. C E

Dummer, Edward Lee, American Hosiery Co., New Britain, Conn. (61). B H

Dumont, Frederick T. F., American Consul, Florence, Italy. (64). D

Duncan, Frederick N., Ph. D., Livingston Hall, Columbia University, New York, N. Y. (50). C F

*Duncan, George Martin, LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (50). 1902. H L

Duncan, James H., C. E., Searsport, Me. (58). D

*Duncan, John Charles, Ph. D., 69 Wendell St., Cambridge, Mass. (62). 1911. A

Duncan, Kenneth W., 811 6th Avenue, No., Quincy, Ill. (63). F G

Duncan, Ralph Winfred, Ph. D., Department of Physics, University of Pennsylvania, Philadelphia, Pa. (66). B

Duncan, Robert Carithers, Ph. D., Department of Physics, University of Pennsylvania, Philadelphia, Pa. (66). B

DUNCANSON, HENRY BRUCE, 1913 14th Ave., North, Seattle, Wash. (50). F

Dungay, Neil Stanley, Ph. D., Department of Zoology, Carleton College, Northfield, Minn. (62). F

DUNHAM, CARROLL, M. D., Hillside, Irvington, N. Y. (57). K

*Dunham, Edward Kellogg, M. D., 35 East 68th St., New York, N. Y. (30). 1890. **C K**

Dunham, Herbert Franklin, C. E., 220 Broadway, New York, N. Y. (60). **D**

Dunham, Kennon, M. D., 2503 Auburn Ave., Cincinnati, Ohio. (65).

Dunham, Theodore, M. D., 48 East 63d St., New York, N. Y. (57). **K**

Dunipace, Joseph Evans, 2329 Parkwood Ave., Toledo, Ohio. (57). **C**

Duniway, Clyde Augustus, Ph. D., President, University of Wyoming, Laramie, Wyo. (64).

Dunkle, Wesley Earl, Valdez, Alaska. (65).

Dunlap, Frederick, Ph. D., Department of Forestry, University of Missouri, Columbia, Mo. (62). **B G M**

*Dunlap, Frederick Levy, Sc. D., 5625 Dorchester Ave., Chicago, Ill. (63). 1915. **C**

*Dunlap, Knight, Ph. D., Associate Professor of Psychology, Johns Hopkins University, Baltimore, Md. (58). 1911. **H L**

Dunlap, Will Knox, E. E., Westinghouse Electric and Mfg. Co., Pittsburgh, Pa. (60). **D**

Dunlap, William, M. D., 661 Cass Ave., Detroit, Mich. (58). **K**

*Dunlevy, Prof. Robert Baldwin, 302 College St., Winfield, Kans. (50). 1909. **C E F**

Dunn, Arthur D., M. D., 1005 So. 29th St., Omaha, Nebr. (60). **K**

Dunn, E. A. A., M. D., Platteville, Wis. (60). **K**

*Dunn, Elizabeth Hopkins, M. D., Woods Hole, Mass. (58). 1913. **F K**

Dunn, Gano, E. E., President, J. G. White Engineering Corporation, New York, N. Y. (50). **A B D E**

Dunn, Grace Adelaide, Johns Hopkins University, Baltimore, Md. (66). **G**

Dunn, Ira J., M. D., New Masonic Temple, Erie, Pa. (51). **K L**

Dunnican, J. F., P. O. Box 324, Rochester, N. Y. (63).

*Dunnington, Francis Perry, Professor of Chemistry, University of Virginia, Charlottesville, Va. (26). 1880. **C E**

DUNSCOMBE, GEORGE ELLSWORTH, 43 East 51st St., New York, N.Y. (57).

Dunster, Carl B., E. M., 11 Pine St., New York, N. Y. (60). **D**

Dunyon, Newton A., E. M., 23 H St., Salt Lake City, Utah. (55). **D E**

du Pont, Alfred I., Wilmington, Del. (60). **C**

du Pont, Irenee, Wilmington, Del. (63). **C**

du Pont, Pierre S., Wilmington, Del. (57). **C**

*Durand, Elias Judah, Sc. D., Assistant Professor of Botany, University of Missouri, Columbia, Mo. (41). 1899. **G**

Durand, Mrs. Frederic F., Maplewood, N. J. (58).

*Durand, William Frederick, Ph. D., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Cal. (37). 1890. **B D**

Durant, William B., Turners Falls, Mass. (61).

Durfee, Philip Sherwood, P. O. Box 1382, Boston, Mass. (63). **C E**

Durfee, Walter Chaloner, 2d, 62 Holbrook St., Jamaica Plain, Mass. (56). **D**

*Durfee, William Pitt, Ph. D., Dean, Hobart College, Geneva, N. Y. (46). 1899. **A**

Durkee, Eugene W., 534 Washington St., New York, N. Y. (57). **D E**

*Durkee, Frank Williams, Professor of Chemistry, Tufts College, Tufts College, Mass. (58). 1910. **C**

Durrant, Edwin Poe, Assistant Professor of Anatomy and Physiology, Ohio State University, Columbus, Ohio. (62). **K**

Durrell, Harold Clarke, 36 Bartlett Ave., Arlington, Mass. (57). **E**

Durst, Fred. M., 1518 Buena Ave., Berkeley, Cal. (66).

Durward, Arthur, Principal, High School, Lordsburg, Cal. (60). **B**

Duryee, Albert P., M. D., American National Bank Building, Everett, Wash. (60). **K**

Dutton, Charles Frederic, Jr., 4816 Franklin Ave., Cleveland, Ohio. (47). **B C E**

Dutton, Walter Forest, M. D., 524 Beechwood Ave., Carnegie, Pa. (60). **K**

*Duval, Charles Warren, M. D., Professor of Pathology and Bacteriology, Tulane University, New Orleans, La. (62). 1911. **K**

*Duval, Edmund P. R., 427 West Boyd St., Norman, Okla. (50). 1906. **A**

*Duvall, Charles R., Carnegie Institution of Washington, Washington, D. C. (65). 1915. **A**

*Duvall, Trumbull Gillette, Ph. D., Professor of Psychology and Philosophy, Ohio Wesleyan University, Delaware, Ohio. (52). 1906. **H I L**

*Duvel, Joseph W. T., Sc. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (48). 1905. **G**

Dwight, Charles A. S., Ph. D., Oak Bluffs, Mass. (65). **H**

*Dwight, Jonathan, Jr., M. D., 134 West 71st St., New York, N. Y. (49). 1906. **F**

Dwight, Mrs. Melatiah E., 31 Mt. Morris Park, West, New York, N. Y. (57).

Dyar, Burt A., M. D., De Smet, S. D. (60). **K**

*Dyar, Harrison Gray, Ph. D., U. S. National Museum, Washington, D. C. (43). 1898. **F**

*Dyer, Isadore, M. D., Dean, School of Medicine and Pharmacy, Tulane College of Medicine, New Orleans, La. (60). 1915. **K**

Dymond, John R., Seed Laboratory, Ottawa, Canada. (64). **G**

Dysart, Paul Moore, 220 Coltart Square, Pittsburgh, Pa. (58). **B D L**

Eagleson, James B., M. D., 512 Burke Building, Seattle, Wash. (51). **K**

*Eakle, Arthur Starr, Ph. D., Associate Professor of Mineralogy, University of California, Berkeley, Cal. (65). 1915. **E**

Earle, Baylis H., M. D., U. S. Quarantine Station, Port Townsend, Washington. (60). **K**

*Earle, Prof. Franklin Sumner, Herradura, Cuba. (39). 1896. **G**

Earll, Charles Isaac, M. E., 159 West 105th St., New York, N. Y. (52). **D**

*East, Edward Murray, Ph. D., Assistant Professor of Experimental Plant Morphology, Bussey Institution, Forest Hills, Boston, Mass. (57). 1911. **C G**

*Eastman, Charles Rochester, Ph. D., American Museum of Natural History, New York, N. Y. (41). 1896. **E F**

Easton, Charles D., M. D., 36 Ayrault St., Newport, R. I. (60). **K**

Easton, Christopher, R. F. D. 2, White Bear Lake, Minn. (52). **I K**

Eastwick, Beatrice M. Hinkle, M. D., 115 East 31st St., New York, N. Y. (60). **K**

*Eastwood, Miss Alice, California Academy of Sciences, San Francisco, Cal. (50). 1901. **G**

*Eaton, Elon Howard, Professor of Biology, Hobart College, Geneva, N. Y. (52). 1906. **F M**

*Eaton, George Francis, Ph. D., Curator of Osteology, Peabody Museum, New Haven, Conn. (54). 1906. **E**

*Eaton, Harry Nelson, 302 South Burrows St., State College, Pa. (56). 1911. **E**

Eaton, William S., 86 Trinity Place, New York, N. Y. (57).

*Ebaugh, William Clarence, Ph. D., Director, Department of Chemistry, University of Utah, Salt Lake City, Utah. (54). 1906. **C L**

Eberle, E. G., P. O. Box 1539, Dallas, Texas. (64).

Eby, Prof. Frederick, University of Texas, Austin, Texas. (65).

*Eccles, David Charles, M. D., 191 Dean St., Brooklyn, N. Y. (50). 1911. **C**

*Eccles, Robert Gibson, M. D., 681 10th St., Brooklyn, N. Y. (31). 1894. **C G K**

*Echols, Charles Patton, Lieut.-Colonel, U. S. A., Professor of Mathematics, U. S. Military Academy, West Point, N. Y. (58). 1914. **A B D L**

*Eckart, Charles Franklin, Director, H. S. P. Experiment Station, Honolulu, Hawaii. (53). 1911. **C**

Eckersley, Joseph Oscar, C. E., 4269 White Plains Ave., New York, N. Y. (58). **A B D**

*Eckerson, Sophia Hennion, Department of Botany, University of Chicago, Chicago, Ill. (62). 1915. **G**

Eckhardt, Englehardt August, Ph. D., Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (66). **B**

Eckhardt, William George, DeKalb, Ill. (64). **C G M**

Eckhart, Percy Bernard, First National Bank Building, Chicago, Ill. (58). **I**

*Eddy, Clarence Leroy, C. E., Assistant Professor of Railway Engineering, Case School of Applied Science, Cleveland, Ohio. (63). 1915. **D**

*Eddy, Henry Turner, Sc. D., Ph. D., LL. D., Dean Emeritus, Graduate School, University of Minnesota, Minneapolis, Minn. (24). 1875. **A B D**

Eddy, Milton Walker, Head, Department of Zoology, Pennsylvania State College, State College, Pa. (62). **F**

Eddy, Walter Hollis, Ph. D., Associate in Biochemistry, Columbia University, New York, N. Y. (60). **C F K**

Ede, J. A., E. M., La Salle, Ill. (63). **D**

Edgar, Thomas Oscar, M. D., 3858 Westminster Place, St. Louis, Mo. (53). **K**

*Edgerton, Claude Wilbur, Ph. D., Professor of Plant Pathology, State Experiment Station, Baton Rouge, La. (56). 1911. **G**

Edington, Will E., Professor of Mathematics, University of New Mexico, Albuquerque, N. M. (65). **A**

Edmonds, Harry M. W., M. D., 36th St. and Broad Branch Road, Washington, D. C. (65). **A B K**

*Edmunds, Charles Keyser, Ph. D., President, Canton Christian College, Canton, China. (58). 1910. **A B D**

Edquist, Joshua Anderson, Professor of Natural Science, Gustavus Adolphus College, St. Peter, Minn. (61). **E F G**

*Edsall, David Linn, M. D., 80 Marlborough St., Boston, Mass. (60). 1911. **K**

*Edson, Howard Austin, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1913. **G**

Edwards, Alice Leora, Oregon State Agricultural College, Corvallis, Oregon. (65). **G**

*Edwards, Charles Lincoln, Ph. D., Director, Department of Nature Study, City Schools, Los Angeles, Cal. (49). 1900. **F L**

Edwards, Dayton J., 505 West 124th St., New York, N. Y. (63). **K**

Edwards, Edwin H., 7317 Clinton Ave., N. W., Cleveland, Ohio. (58). **F G K**

EDWARDS, J. WARNER, E. M., 1347 Court Place, Denver, Colo. (58). **D**

Edwards, William Franklin, R. F. D. 4, Houston, Texas. (62). **C**

Eells, Charles P., Insurance Exchange Building, San Francisco, Cal. (65).

Egbert, J. Hobart, M. D., 114 Spring St., Willimantic, Conn. (55). **F K**

Egdahl, Anfin, M. D., Menomonie, Wis. (58). **K**

Egerton, John B., 325 East 20th St., Baltimore, Md. (60). **F**

Eggen, Halsten Olson, 634 French St., Santa Ana, Cal. (65). **B**

*Eggleston, Willard Webster, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1909. **G**

Ehman, Joseph W., 145 North 10th St., Philadelphia, Pa. (60). **C**

Ehmke, W. C., M. D., Willow River, Minn. (60). **K**

*Ehrenfeld, Charles Hatch, Ph. D., Professor of Chemistry and Physics, Collegiate Institute, York, Pa. (54). 1911. **B C**

*Ehrenfeld, Frederick, Ph. D., Assistant Professor of Geology and Mineralogy, University of Pennyslvania, Philadelphia, Pa. (50). 1911. **E**

*Ehrhorn, Edward Macfarlane, care Board of Agriculture and Forestry, Honolulu, Hawaii. (50). 1906. **F M**

*Eichelberger, William Snyder, Ph. D., Professor of Mathematics, U. S. Naval Observatory, Washington, D. C. (41). 1896. **A**

Eidlitz, Otto Marc, C. E., 30 East 42d St., New York, N. Y. (57). **D**

Eidlitz, Robert James, 995 Madison Ave., New York, N. Y. (57).

*Eiesland, John A., Ph. D., Department of Mathematics, West Virginia University, Morgantown, W. Va. (50). 1903. **A**

*Eigenmann, Carl H., Ph. D., Research Professor of Zoology, Indiana University, Bloomington, Ind. (48). 1899. **F**

*Eikenberry, W. L., School of Education, University of Chicago, Chicago, Ill. (64). 1915. **L**

Eilers, Anton, E. M., 751 St. Mark's Ave., Brooklyn, N. Y. (50). **D E**

Eimer, August, 190 Riverside Drive, New York, N. Y. (50).

*Einarsson, Sturla, Ph. D., University of California, Berkeley, Cal. (63). 1913. **A**

*Eisenhart, Luther Pfahler, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (60). 1910. **A**

Eisenhart, M. H., 371 Barrington St., Rochester, N. Y. (63).

Eisenhauer, John H., Professor of Physics and Geometry, McKeesport High School, McKeesport, Pa. (60). **A B**

*Ekblaw, Walter Elmer, University of Illinois, Urbana, Ill. (63). 1915. **E**

*Ekeley, John Bernard, Ph. D., Professor of Chemistry, University of Colorado, Boulder, Colo. (62). 1915. **C**

Elder, E. Waite, 1300 Pontiac St., Denver, Colo. (50). **C**

Eldred, Frank R., 3325 Kenwood Ave., Indianapolis, Ind. (57). **C**

*Eliot, Charles William, M. D., LL. D., Cambridge, Mass. (61). 1910. **L**

*Elkin, William Lewis, Ph. D., Yale University, New Haven, Conn. (33). 1885. **A**

Elkus, Abram I., 170 Broadway, New York, N. Y. (57).

Elkus, Savilla Alice, Ph.D., Vassar College, Poughkeepsie, N. Y. (65).

*Ellard, Charles Henry, Great Neck, Long Island, N. Y. (58). 1911. **C F L**

*Ellerman, Ferdinand, Assistant Astrophysicist, Mt. Wilson, Cal. (58). 1913. **A B**

Ellinwood, C. N., M. D., 2739 Pacific Ave., San Francisco, Cal. (60). **K**

Elliot, George Thomson, M. D., 128 East 35th St., New York, N. Y. (50). **F K**

Eliot, Thomas Lamb, LL.D., 426 Abington Building, Portland, Oreg. (66).

Elliott, Charles H., 997 Spring Garden St., Greensboro, N. C. (60). **A**

Elliott, E. L., 12 West 40th St., New York, N. Y. (58). **B**

*Elliott, Edward Charles, Ph. D., Professor of Education and Director of Course of the Training of Teachers, University of Wisconsin, Madison, Wis. (58). 1910. **I L**

*Ellis, A. Caswell, Ph. D., Professor of Education, University of Texas, Austin, Tex. (52). 1910. **I K L**

Ellis, Charles E., Iowa State College, Ames, Iowa. (60). **C D E**

*Ellis, Frederick Warren, M. D., Monson, Mass. (47). 1906. **B K**

Ellis, Henry Rives, E. M., 148 Pierpont St., Salt Lake City, Utah. (53). **C D E**

*Ellis, Max Mapes, Ph. D., Assistant Professor of Biology, University of Colorado, Boulder, Colo. (58). 1915. **F K**

Ellison, Daniel, 512 Equitable Building, Baltimore, Md. (61).

Ellison, William Bruce, 165 Broadway, New York, N. Y. (65).

Ells, Gordon W., care 27th Infantry, Texas City, Texas. (65). **F**

Ellwood, Charles A., Professor of Sociology, University of Missouri, Columbia, Mo. (63). **H I**

Elmore, Clarence J., R. F. D. 5, Grand Island, Nebraska. (62).

*Elrod, Morton John, Ph. D., Professor of Biology, University of Montana, Missoula, Mont. (50). 1901. **F**

*Elsberg, Charles A., M. D., Madison Ave. and 63d St., New York, N. Y. (57). 1908. **K**

Elsom, Harry E., Masontown, Pa. (58). **C**

Elton, Howard L., E. M., Oaxaca, Oaxaca, Mexico. (60). **D**

*Ely, Charles Russell, Ph. D., Professor of Natural Science, Gallaudet College, Washington, D. C. (52). 1911. **C E**

Ely, John A., Professor of Surveying and Engineering, St. Johns University, Shanghai, China. (65). **D**

Ely, Sumner Boyer, M.E., 5122 Pembroke Place, Pittsburgh, Pa. (50). **D**

*Ely, Theodore Newel, Sc. D., Bryn Mawr, Pa. (29). 1886. **D**

Emanuel, John Henderson, Jr., Equitable Bldg., 120 Broadway, New York, N. Y. (65).

Embody, George Charles, Ph. D., Assistant Professor of Agriculture, Cornell University, Ithaca, N. Y. (61). **G**

*Emch, Arnold, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (63). 1914. **A**

*Emelianoff, I. V., Agricultural Experiment Station, Charkow, Russia. (62). 1914. **F**

*Emerson, Benjamin Kendall, Ph. D., P. O. Box 203, Amherst, Mass. (19). 1877. **E**

*EMERSON, PROF. CHARLES FRANKLIN, P. O. Box 499, Hanover, N. H. (22). 1874. **A B**

*Emerson, Charles P., M. D., 3177 No. Pennsylvania St., Indianapolis, Ind. (58). 1909. **K**

*Emerson, Herbert W., 1113 College St., Ann Arbor, Mich. (60). 1911. **C**

Emerson, R. L., 1808 I St., N. W., Washington, D. C. (63).

EMERSON, MRS. RAYMOND, Concord, Mass. (64).

*Emerson, Rollins Adams, Ph. D., Department of Plant Breeding, Cornell University, Ithaca, N. Y. (63). 1915. **F**

*Emery, Albert Hamilton, 788 Main St., Stamford, Conn. (29). 1884. **A B D**

Emery, William Lorenzo, E. E., 43 No. 7th West St., Salt Lake City, Utah. (60). **C D**

*Emery, William Orrin, Ph. D., 2232 Cathedral Ave., N. W., Washington, D. C. (53). 1909. C

*Emmel, Victor E., Ph. D., Associate Professor of Anatomy, Washington University Medical School, St. Louis, Mo. (58). 1911. K

Emmert, Edward J., M. D., Lawrenceburg, Ind. (58). K

*Emmett, Arthur Donaldson, P. O. Box 33, Mechanicsburg, Ill. (57) 1911. C K

Emmons, Newton W., M. E., 606 Hastings St., W., Vancouver, British Columbia. (58). D

*Emmons, William Harvey, Ph.D., Professor of Geology and Mineralogy, University of Minnesota, Minneapolis, Minn. (62). 1914. E

Emrich, William H., Marquette Club, Chicago, Ill. (58).

Enders, Prof. Henry C., Cooper Union, New York, N. Y. (60). C

*Enders, Howard Edwin, Ph. D., Assistant Professor of Zoology, Purdue University, La Fayette, Ind. (50). 1911. F

*Engberg, Carl Christian, Ph. D., Professor of Applied Mathematics, University of Nebraska, Lincoln, Nebr. (58). 1909. A

*Engelhardt, Francis Ernest, Ph. D., 405 City Hall, Syracuse, N. Y. (58). 1911. C

*Engelhardt, George P., 373 Ocean Ave., Brooklyn, N. Y. (58). 1915. F

*Engler, Edmund Arthur, Ph. D., LL. D., Washington University, St. Louis, Mo. (50). 1901. A D L

English, Walter A., U. S. Geological Survey, Washington, D. C. (65). E

*Ennis, William Duane, M. E., Professor of Mechanical Engineering, Polytechnic Institute, Brooklyn, N. Y. (58). 1915. D

Eno, A. F., 32 Fifth Ave., New York, N. Y. (50).

Ensign, William O., M. D., Rutland, Ill. (60). K

Epple, Fred, 10305 Euclid Ave., Cleveland, Ohio. (63).

Eppley, Marion, Princeton, N. J. (60). C

Epstean, Edward, 141 East 25th St., New York, N. Y. (57). I

Epstein, Albert Arthur, 995 Madison Ave., New York, N. Y. (63).

*Erdmann, Charles Andrew, M. D., Professor of Anatomy, University of Minnesota, Minneapolis, Minn. (58). 1913. K

*Erikson, Henry Anton, Ph. D., Assistant Professor of Physics, University of Minnesota, Minneapolis, Minn. (62). 1913. B

Erlandsen, Oscar, C. E., 100 East 34th St., New York, N. Y. (60). D

Erlanger, A., 65 Worth St., New York, N. Y. (57).

Erlanger, Joseph, M. D., Professor of Physiology, Washington University, St. Louis, Mo. (63). K

Ernest, Thomas Reuben, Ph. D., 908 State Life Building, Indianapolis, Ind. (58). C

*Erwin, Arthur Thomas, Associate Professor of Horticulture, Iowa State College, Ames, Iowa. (54). 1911. G

Esbjorn, Charles Linus Eugene, 9th Ave. and 34th St., Rock Island, Ill. (58). L

*Eshner, Augustus A., M. D., 1019 Spruce St., Philadelphia, Pa. (54). 1909. K

Espenschied, Charles, 3500 Washington Ave., St. Louis, Mo. (60).
Esquerre, Edmond, Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh, Pa. (63). **C**
*Essary, Samuel Henry, Jackson, Tenn. (54). 1911. **G I**
Essenberg, Jacob M., 352 Greenwich St., Valparaiso, Ind. (65). **F**
*Essig, Edward Oliver, Department of Entomology, University of California, Berkeley, Cal. (62). 1915. **F G**
Estabrook, Arthur Frederic, 15 State St., Boston, Mass. (57).
Estabrook, Arthur H., Eugenics Record Office, Cold Spring Harbor, L. I., N. Y. (61). **F**
Estabrook, Edward L., Platteville, Wis. (63). **E**
*Esterly, Calvin Olin, Ph. D., Professor of Biology, Occidental College, Los Angeles, Cal. (53). 1911. **F**
Estes, R. Logan, M. D., Meredosia, Ill. (60). **K**
*Esty, Thomas Cushing, Professor of Mathematics, Amherst College, Amherst, Mass. (58). 1911. **A**
*Esty, William, Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. (58). 1911. **D E**
Esty, William Cole, LL. D., 85 Elm St., Worcester, Mass. (60). **A**
*Eustace, Harry Joshua, Professor of Horticulture, Michigan Agricultural College, East Lansing, Mich. (64). 1915. **G**
*Evans, Alexander William, M. D., Ph. D., Professor of Botany, Yale University, New Haven, Conn. (45). 1903. **G K**
Evans, Arthur T., University of Colorado, Boulder, Colo. (65). **F G**
Evans, Benjamin Ellsworth, Bureau of Plant Industry, Kissimmee, Fla. (66). **G**
Evans, Britton Duroc, M. D., Greystone Park, N. J. (51). **H K**
Evans, Claude Maxey, Superintendent of Extension Work, A. and M. College of Texas, College Station, Texas. (62). **G**
Evans, Henry, President, Continental Fire Insurance Co., 80 Maiden Lane, New York, N. Y. (66). **I**
*Evans, Henry Brown, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (48). 1906. **A D**
Evans, James Rittenhouse, 3 High St., Pottstown, Pa. (58). **C**
Evans, John D., care C. O. Railway, Trenton, Ontario, Canada. (58). **D F**
Evans, Lawton Bryan, Superintendent, City Schools, Augusta, Ga. (65).
*Evans, Percy Norton, Ph. D., Professor of Chemistry, Purdue University, La Fayette, Ind. (58). 1910. **C**
Evans, Rowland, 1436 No. Alabama St., Indianapolis, Ind. (58). **I**
Evans, Samuel G., 330 Main St., Evansville, Ind. (39). **G**
*Evans, Walter Harrison, Ph. D., U. S. Department of Agriculture, Washington, D. C. (52). 1906. **G**
*Evans, William Lloyd, Ph. D., Assistant Professor of Chemistry, Ohio State University, Columbus, Ohio. (57). 1908. **C**
Eveland, Arthur John, E. M., 42 Broadway, New York, N. Y. (55). **D E**

Everette, Dr. Willis Eugene, 3512 South 11th St., Tacoma, Wash. (64). **A B C D E H K**

Everhart, Edgar, Ph. D., 150 North Jackson St., Atlanta, Ga. (62). **C**

*Evermann, Barton Warren, Ph. D., Director of Museum, California Academy of Sciences, San Francisco, Cal. (52). 1905. **F L**

Evers, Edward, M. D., 1861 North Market St., St. Louis, Mo. (28). **F H K**

Evvard, John Marcus, Assistant Chief in Animal Husbandry, Iowa Agricultural Experiment Station, Ames, Iowa. (64). **F**

*Ewell, Marshall Davis, M. D., LL. D., 155 No. Clark St., Chicago, Ill. (57). 1911. **B K**

Ewing, Early Cunningham, Mississippi Agricultural Experiment Station, Agricultural College, Miss. (61). **G**

*Ewing, Henry Ellsworth, Ph. D. 242 No. 12th St., Corvallis, Ore. (61). 1915. **F**

Ewy, Edwin W., Parlier, Cal. (62). **G**

*Eycleshymer, Albert Chauncey, Ph. D., Head, Department of Anatomy, College of Medicine, Congress and Honore Sts., Chicago, Ill. (53). 1906. **K**

*Eyerman, John, 56 North 4th St., Easton, Pa. (33). 1889. **C E**

*Eyster, John A. English, M. D., Professor of Physiology, University of Wisconsin, Madison, Wis. (57). 1909. **K**

Fackenthal, Frank Diehl, Secretary, Columbia University, New York, N. Y. (62).

Fahrig, Ernst, 3642 Old York Road, Philadelphia, Pa. (51). **C**

Fain, John R., Professor of Agronomy, Georgia State College of Agriculture, Athens, Ga. (64). **F G**

Fairbank, Alexander W., M. D., Chazy, N. Y. (60). **K**

Fairbanks, Floyd Cooper, 51 East Stratford Ave., Lansdowne, Pa. (66). **B**

*Fairbanks, Harold Wellman, Ph. D., P. O. Box 376, Berkeley, Cal. (58). 1910. **E L**

*Fairbanks, Rev. Henry, Ph. D., St. Johnsbury, Vt. (14). 1874. **A B D**

Fairchild, Benjamin Thomas, 76 Laight St., New York, N. Y. (36). **C K**

*Fairchild, David Grandison, 1331 Connecticut Ave., Washington, D. C. (47). 1898. **G**

*Fairchild, Herman LeRoy, Sc. D., Professor of Geology, University of Rochester, Rochester, N. Y. (28). 1883. **E**

Fairclough, Henry Rushton, Ph. D., Professor of Latin, Leland Stanford Junior University, Stanford University, Cal. (65).

Falconer, William, Supt., Allegheny Cemetery, Pittsburgh, Pa. (29).

Falding, Frederic John, Consulting Chemical Engineer, 55 Broadway, New York, N. Y. (50). **C**

*Falk, Kaufman George, Ph. D., 151 Central Park, West, New York, N. Y. (58). 1911. **B C**

Fallon, G. W. R., 281 Fourth Ave., New York, N. Y. (57).

Famulener, Lemuel William, M. D., 717 West 177th St., New York, N. Y. (60). **K**

*Farabee, William Curtis, Ph. D., University Museum, Philadelphia, Pa. (54). 1911. **H**

*Faris, Robert Lee, Assistant Superintendent, U. S. Coast and Geodetic Survey, Washington, D. C. (58). 1910. **B**

Farley, Godfrey Pearson, C. E., 319 Church St., Richmond Hill, N. Y. (51). **A B D E**

*Farley, John Herbert, Professor of Psychology and Philosophy, Lawrence College, Appleton, Wis. (64). 1914. **H**

Farlow, John W., M. D., 234 Clarendon St., Boston, Mass. (60). **K**

*Farlow, William Gilson, M. D., Ph. D., LL. D., Professor of Cryptogamic Botany, Harvard University, Cambridge, Mass. (20). 1875. **G**

Farnam, Henry Walcott, R. P. D., Professor of Economics, Yale University, New Haven, Conn. (62). **I**

Farnham, Dr. Amos W., Oswego, N. Y. (54). **E**

Farnsworth, Miss Alice, The Vendome, Boston, Mass. (60).

Farnsworth, Harry B., M. D., Montana Building, Missoula, Mont. (60). **K**

Farnsworth, Sidney Woods, 5718 Elgin Ave., Pittsburgh, Pa. (64). **D**

Farquhar, Arthur B., LL. D., President, A. B. Farquhar Co., Ltd., York, Pa. (66). **I**

*Farquhar, Henry, 1601 Park Road, Washington, D. C. (33). 1886. **A B G I**

Farr, Clifford H., 528 West 123d St., New York, N. Y. (63). **G**

*Farr, Marcus Stults, Sc. D., Princeton University, Princeton, N. J. (49). 1911. **E**

*Farrand, Livingston, M. D., President, University of Colorado, Boulder, Colo. (50). 1902. **H K**

Farrand, Wilson, Newark Academy, Newark, N. J. (61).

Farrell, Francis David, U. S. Department of Agriculture, Washington, D. C. (62). **C**

Farrington, Ernest A., M. D., President, Bancroft Training School, Haddonfield, N. J. (61). **K**

*Farrington, Frederic Ernest, Teachers College, Columbia University, New York, N. Y. (61). 1912. **L**

*Farrington, Oliver Cummings, Ph. D., Field Museum of Natural History, Chicago, Ill. (58). 1909. **E**

Farwell, Robert Benneson, C. E., 15 Beacon St., Boston, Mass. (47). **D**

*Fassig, Oliver Lanard, Ph. D., U. S. Weather Bureau, Baltimore, Md. (46). 1899. **B E L**

Fasten, Nathan, Ph. D., Department of Zoology, University of Washington, Seattle, Wash. (66). **F**

*Fath, Edward Arthur, Ph. D., President, Redfield College, Redfield, S. D. (63). 1913. **A**

*Faught, John Brookie, Ph. D., Kent, Ohio. (50). 1907. **A**

*Faull, Joseph Horace, Ph. D., Associate Professor of Botany, University of Toronto, Toronto, Canada. (54). 1909. **G**

Faure, Jacobus C., 84 Troye St., Pretoria, Union of South Africa. (63). **F**

*Favill, Henry Baird, M. D., 122 South Michigan Ave., Chicago, Ill. (58). 1909. **K**

*Fawcett, Howard Samuel, Southern California Pathological Laboratory, Whittier, Cal. (63). 1913. **G**

Fawcett, William P., M. D., Alderson, W. Va. (60). **K**

Fay, Charles Ralph, Crescent Athletic Club, Brooklyn, N. Y. (65). **I L**

Fay, Lewis George, Custom House, New York, N. Y. (50). **G**

Fegraeus, Torbern, Ph. D., care Nobel Brothers, Petrograd, Russia. (60). **D**

Feingold, Marcus, M. D., 124 Baronne St., New Orleans, La. (60). **K**

Fellows, Charles Sumner, 107 Chamber of Commerce, Minneapolis, Minn. (34). **F**

*Felt, Ephraim Porter, Sc. D., New York State Entomologist, Albany, N. Y. (44). 1899. **F**

Fender, Charles W., 2423 Durant Ave., Berkeley, Cal. (66).

Fenn, Robert Willson, C. E., Lindsay, Cal. (60). **D**

*Fenneman, Nevin M., Ph. D., University of Cincinnati, Cincinnati, Ohio. (51). 1904. **E**

Fenner, H. W., M. D., Tucson, Arizona. (65). **K**

Fenner, John Kelsey, Principal, Cranston High School, Auburn, R. I. (58). **A B C D E G**

*Ferguson, Alexander McGowan, Sherman, Texas. (51). 1905. **G**

*Ferguson, John Arden, Professor of Forestry, Pennsylvania State College, State College, Pa. (60). 1911. **G M**

*Ferguson, Margaret Clay, Ph. D., Professor of Botany, Wellesley College, Wellesley, Mass. (54). 1906. **G**

Ferguson, Meade, Ph. D., 28 North 9th St., Richmond, Va. (58). **C G I K**

Ferguson, Robert Henry, M. D., 9 North Munn Ave., East Orange, N. J. (60). **K**

Fergusson, Sterling Price, Professor of Meteorology and Climatology, University of Nevada, Reno, Nevada. (62). **A D**

*Fernald, Charles H., Ph. D., Massachusetts Agricultural College, Amherst, Mass. (58). 1913. **F**

*Fernald, Henry Torsey, Ph. D., Professor of Entomology, Massachusetts Agricultural College, Amherst, Mass. (58). 1910. **F**

*Fernald, Merritt Lyndon, Assistant Professor of Botany, Harvard University, Cambridge, Mass. (60). 1911. **G**

*Fernald, Robert Heywood, M. E., Ph. D., Professor of Dynamical Engineering, University of Pennsylvania, Philadelphia, Pa. (63). 1914 **D**

Fernberger, Samuel Weiller, Ph. D., Clark University, Worcester, Mass. (60).

*Fernekes, Gustave, Ph. D., Carnegie Institute of Technology, Pittsburgh, Pa. (57). 1909. **C**

*Fernow, Bernhard Eduard, LL. D., University of Toronto, Toronto, Canada. (31). 1887. G I

Ferrier, Walter F., E. M., 204 Lumsden Building, Toronto, Canada. (60). D

*Ferris, Harry Burr, M. D., Hunt Professor of Anatomy, Yale University, New Haven, Conn. (60). 1913. F K

*Ferry, Frederick Carlos, Sc. D., Ph. D., Dean and Professor of Mathematics, Williams College, Williamstown, Mass. (58). 1909. A

Ferry, Mansfield, 31 Nassau St., New York, N. Y. (58).

Fertig, James W., State Normal School, Murfreesboro, Tenn. (64).

Fetterman, John Colvin, Castle Shannon, Pa. (51). E F

*Fettke, Charles Reinhard, Ph. D., Carnegie Institute of Technology, Pittsburgh, Pa. (63). 1915. E

*Fewkes, J. Walter, Ph. D., LL. D. Bureau of American Ethnology, Smithsonian Institution, Washington, D. C. (48). 1900. H

Fiala, Anthony, 1302 Broadway, New York, N. Y. (60). E

*Field, Cyrus West, M. D., Pathological Department, Bellevue Hospital, New York, N. Y. (58). 1909. K

*Field, George Wilton, Ph. D., 158 State House, Boston, Mass. (60). 1911. F

*Field, Herbert Haviland, Ph. D., Director, Councilium Bibliographicum, Zurich-Neumünster Kollikerstr-9, Zurich, Switzerland. (54). 1908. F

Field, Irving Angell, Ph. D., Packachoag St., Auburn, Mass. (57). F

Field, Robert Franklin, 25 Wilson St., Providence, R. I. (63). B D

Field, Shirley Ernest, Williamston, Mich. (65). B

FIELD, WILLIAM B. OSGOOD, 645 Fifth Ave., New York, N. Y. (57).

*Field, William Lusk Webster, Milton Academy, Milton, Mass. (47). 1913. E F L

*FIELDE, ADELE MARION, The San Marco, 1205 Spring St., Seattle, Wash. (57). 1914. F H

Fielder, Edwin W., 35 West 32d St., New York, N. Y. (63).

*Fields, John Charles, Ph. D., Associate Professor of Mathematics, University of Toronto, Toronto, Canada. (60). 1910. A

*Finch, John Wellington, E. M., Symes Building, Denver, Colo. (50). 1911. E

Findlay, Merlin Chamberlin, Professor of Biology, Park College, Parkville, Mo. (50). F

Fine, Morris S., Ph. D., Adjunct Professor of Pathological Chemistry, New York Post-Graduate Medical School, New York, N. Y. (60). C

*Fink, Bruce, Ph. D., Professor of Botany, Miami University, Oxford, Ohio. (45). 1899. G

*Fink, Colin Garfield, Ph. D., care General Electric Co., Harrison, N. J. (60). 1911. C

*Finkel, Benjamin Franklin, Ph. D., Professor of Mathematics and Physics, Drury College, Springfield, Mo. (60). 1910. A B

Finley, Charles William, 216 North Ward St., Macomb, Ill. (63). F G

*Finley, Hon. John Huston, Commissioner of Education, Albany, N. Y. (65). 1915. L

Finley, Norval Howard, 7229 Hermitage St., Pittsburgh, Pa. (52). C D I

Finley, W. L., 651 East Madison St., Portland, Oregon. (65).

Finner, Ewald R., Dodge, Wis. (65). G

Finney, Florella Kelso, 324 Emerson St., Palo Alto, Cal. (66).

*Finney, John M. T., M. D., 1300 Eutaw Place, Baltimore, Md. (60). 1914. K

Fippin, Elmer Otterbein, Professor of Soil Technology, Cornell University, Ithaca, N. Y. (62). G

*Fireman, Peter, Ph. D., Cosmos Club, Washington, D. C. (45). 1911. D

*Firmstone, Frank, Easton, Pa. (33). 1887. D

Firth, William P., 3 May Place, Rosedale, Toronto, Canada. (58). C

*Fischelis, Philipp, M. D., Associate Professor of Histology and Embryology, Medico-Chirurgical College, Philadelphia, Pa. (60). 1911. K

Fischer, Charles E. M., M. D., 1922 West Chicago Ave., Chicago, Ill. (53). C F K

*Fischer, Louis Albert, Bureau of Standards, Washington, D. C. (47). 1906. A B C E

*Fischer, Martin H., M. D., Professor of Physiology, University of Cincinnati, Cincinnati, Ohio. (58). 1909. K

*Fischer, Richard, Ph. D., Professor of Analytical Chemistry, University of Wisconsin, Madison, Wis. (58). 1909. C

Fischer, Rudolph, P. O. Box 368, San Dimas, Cal. (66).

Fischer, Walter, General Roca, Rio Negro, F. C. S., Argentina, S. A. (60). G

Fish, Charles Henry, M. E., P. O. Box 1593, Boston, Mass. (51). D

Fish, Frederick P., 84 State St., Boston, Mass. (60).

Fish, Joseph Burton, Department of Biology, Boys High School, Brooklyn, N. Y. (65). F

*Fish, Pierre Augustine, D. V. M., Sc. D., Professor of Veterinary Comparative Physiology, Cornell University, Ithaca, N. Y. (49). 1901. K

Fish, William B., 10601 Ashbury Ave., Cleveland, Ohio. (63).

*Fishberg, Maurice, M. D., 1337 Madison Ave., New York, N. Y. (57). 1911. K

Fisher, Carl D., M. D., 618 Mack Block, Denver, Colo. (55). F K

*Fisher, Cassius Asa, Consulting Geologist, Room 705, First National Bank Building, Denver, Colo. (55). 1909. E

Fisher, Chester G., 717 Forbes St., Pittsburgh, Pa. (60). C

*Fisher, Elizabeth Florette, Professor of Geology, Wellesley College, Wellesley, Mass. (57). 1909. E

Fisher, Elizabeth Wilson, 2222 Spruce St., Philadelphia, Pa. (66).

*Fisher, George Egbert, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (51). 1904. A

Fisher, George J., M. D., 124 East 28th St., New York, N. Y. (57). I K

Fisher, Henry Donald, M. E., care Fuel Testing Co., 220 Devonshire St., Boston, Mass. (60). D

*Fisher, Irving, Ph. D., R. P. D., Professor of Economics, Yale University, New Haven, Conn. (50). 1901. A I

Fisher, James, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. (58). A B

Fisher, Robert Jones, 614 F St. N. W., Washington, D. C. (50). D

Fisher, Robert Welles, M. D., corner 3d South and 5th East Sts., Salt Lake City, Utah. (51). K

*Fisher, Walter Kenrick, Ph. D., Assistant Professor of Zoology, Leland Stanford Junior University, Stanford University, Cal. (65). 1915. F

Fisher, Wilbur H., C. E., 158 Market St., Hannibal, Mo. (60). D

*Fisher, Willard James, Ph. D., Professor of Physics, New Hampshire College, Durham, N. H. (53). 1910. B

Fisk, Eugene Lyman, M. D., 25 West 45th St., New York, N. Y. (64). I K

*Fisk, Prof. Harlan Wilbur, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C. (60). 1910. B

Fisk, Herbert F., D. D., LL. D., 28 East Jackson Boulevard, Chicago, Ill. (50). E H L

Fiske, Andrew, 216 Commonwealth Ave., Boston, Mass. (60).

Fiske, Augustus Henry, 6 Cooke St., Providence, R. I. (58). C

*Fiske, Thomas Scott, Ph. D., Head, Department of Mathematics, Columbia University, New York, N. Y. (50). 1901. A

*Fiske, W. F., Gipsy Moth Parasite Laboratory, Melrose Highlands, Mass. (60). 1913. F

Fiske, Wilbur A., 1210 North Euclid Ave., Ontario, Cal. (51). C E

Fitch, Henry A., M. D., 4 Rutgers Park, Utica, N. Y. (60). K

Fitch, Mary Alida, Ph. D., 337 East Market St., Warrensburg, Mo. (62). G

Fitterer, John C., Professor of Civil and Irrigation Engineering, University of Wyoming, Laramie, Wyo. (64). D

*Fitz, George Wells, M. D., Peconic, N. Y. (47). 1898. K

Fitz, Leslie A., Professor of Milling Industry, Kansas State Agricultural College, Manhattan, Kans. (66). M

*Fitz Gerald, Francis A. J., The Fitz Gerald Laboratories, Inc., Niagara Falls, N. Y. (50). 1906. C

Fitzgerald, John Gerald, University of Toronto, Toronto, Canada. (63). K

Fitzgerald, William P., Chief Chemist, J. T. Baker Chemical Co., Phillipsburg, N. J. (60). C

Fitzpatrick, John F., 90 Western Ave., St. Paul, Minn. (62). K

*Fitzpatrick, Thomas J., Professor of Physics and Chemistry, University of Nebraska, Lincoln, Nebr. (52). 1905. A G L

*Fitz-Randolph, Raymond Bernard, Director, State Laboratory of Hygiene, Trenton, N. J. (54). 1911. C K

Flagg, Arthur L., 287 Highland Ave., Providence, R. I. (63). E

Flagg, Elisha, M. D., 199 Commonwealth Ave., Boston, Mass. (60). K

Flanigan, John A., 71 Marshall St., Paterson, N. J. (61). C

Flather, Miss Alice Virginia, 20 Arlington St., Nashua, N. H. (58). C

*Flather, John J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. (44). 1896. D

Fleener, F. Leslie, 402 4th Ave., Dayton, Ky. (65). E

Fleischhacker, Herbert, 1 Sansome St., San Francisco, Cal. (65).

Fleischner, Emanuel Charles, M. D., 350 Post St., San Francisco, Cal. (64). K

Fleisher, Moyer S., M. D., Assistant Professor of Bacteriology, St. Louis University School of Medicine, St. Louis, Mo. (62). K

*Flemer, John Adolph, Constructing Topographical and Landscape Engineer, "Ingleside," Norma, Va. (62). 1911. D

Fleming, A. S., M. D., Wheaton, Minn. (60). K

Fleming, Francis P., 345 East Monroe St., Jacksonville, Fla. (63).

*Fleming, John Adam, 36th St. and Broad Branch Road, Washington, D. C. (48). 1909. A B D

*Fletcher, Miss Alice Cunningham, Peabody Museum, Cambridge, Mass. (29). 1883. H

Fletcher, Austin Bradstreet, C. E., Forum Building, Sacramento, Cal. (65). D

*Fletcher, Horace, care Frederick A. Stokes Co., 449 4th Ave., New York, N. Y. (54). 1908. H I K L

*Fletcher, John M., Professor of Psychology and Education, Newcomb College, Tulane University, New Orleans, La. (65). 1915. H L

*Flexner, Abraham, General Education Board, 61 Broadway, New York, N. Y. (60). 1910. L

*Flexner, Simon, M. D., Sc. D., LL. D., The Rockefeller Institute for Medical Research, New York, N. Y. (52). 1905. K

Fling, Professor Harry R., Oshkosh Normal School, Oshkosh, Wis. (61).

*Flint, Professor Albert Stowell, Washburn Observatory, Madison, Wis. (30). 1887. A

*Flint, James Milton, M. D., U. S. N., Stoneleigh Court, Washington, D. C. (28). 1882. F H

*Flint, Joseph Marshall, M. D., Professor of Surgery, Yale University, New Haven, Conn. (58). 1914. K

Flint, Wesley Pillsbury, 1231 West Edwards St., Springfield, Ill. (64). G

Flocken, Charles Frederick, 2624 Emerson Ave., South, Minneapolis, Minn. (64). F

Floody, Rev. Robert J., 43 Endicott St., Worcester, Mass. (61). L

*Floyd, Bayard Franklin, Agricultural Experiment Station, Gainesville, Fla. (63). 1915. G

Floyd, C. Harold, 122 Salisbury Ave., Garden City, L. I., N. Y. (60).

Floyd, O. N., care Morgan Engineering Co., Dayton, Ohio. (65). D

*Focke, Theodore M., Ph. D., Professor of Mathematics, Case School of Applied Science, Cleveland, Ohio. (44). 1903. A B

Foersterling, Dr. Hans, 380 High St., Perth Amboy, N. J. (63).

*Foley, Arthur Lee, Ph. D., Professor of Physics, Indiana University, Bloomington, Ind. (46). 1900. B

*Folkmar, Daniel, D. S. S., 1818 N St., N. W., Washington, D. C. (46). 1911. **H I**

*Folks, Homer, 428 Hawthorne Ave., Yonkers, N. Y. (58). 1909. **I L**

Follis, Richard H., M. D., 3 East Read St., Baltimore, Md. (60). **K**

Folsom, Mrs. Charles F., 114 Marlborough St., Boston, Mass. (60).

Folsom, Justus Watson, Sc. D., Assistant Professor of Entomology, University of Illinois, Urbana, Ill. (53). 1906. **F**

Foord, James A., Professor of Farm Management, Division of Agriculture, Mass. Agricultural College, Amherst, Mass. (66). **M**

Foos, Charles S., Ph. D., Superintendent, Public Schools, Reading, Pa. (66). **L**

*Foot, Katharine, care Brown, Shipley and Co., 123 Pall Mall, London, England. (58). 1910. **F**

*Foote, Arthur De Wint, C. E., Grass Valley, Cal. (60). 1915. **D**

*Foote, James Stephen, M. D., 202 South 31st Ave., Omaha, Nebr. (50). 1911. **K**

*Foote, Warren Mathews, 107 North 19th St., Philadelphia, Pa. (50). 1906. **C E I L**

Foran, George Jesse, M. E., 471 Central Park, West, New York, N. Y. (60). **D**

FORBES, ALEXANDER, Milton, Mass. (60).

Forbes, Ernest Browning, Ph. D., Ohio Agricultural Experiment Station, Wooster, Ohio. (66). **M**

*Forbes, George Shannon, Ph. D., Boylston Hall, Cambridge, Mass. (58). 1910. **C**

*Forbes, Robert Humphrey, Professor of Chemistry, University of Arizona, Tucson, Ariz. (50). 1906. **C**

*Forbes, Stephen Alfred, Ph. D., LL. D., Professor of Entomology, University of Illinois, Urbana, Ill. (55). 1907. **F**

*FORBES, WILLIAM T. M., Ph. D., 23 Trowbridge Road, Worcester, Mass. (61). 1914. **F**

Ford, Bruce, M. E., 25 Summit St., Chestnut Hill, Philadelphia, Pa. (60). **D**

Ford, Starr, M. D., 19 West 7th St., Cincinnati, Ohio. (60). **K**

*Forrest, Charles Needham, New York Testing Laboratory, Maurer, N. J. (58). 1911. **C**

Forrester, J. Bryce, 1634 9th East St., Salt Lake City, Utah. (66).

FORTMANN, HENRY FREDERICK, President, Alaska Packers Association, 1007 Gough St., San Francisco, Cal. (54). **D**

Foshay, P. Maxwell, M. D., 168 Park St., Montclair, N. J. (61). **K**

Foster, Harold D., U. S. Forest Service, Medford, Oreg. (66). **M**

Foster, Macomb G., P. O. Box 1120, New York, N. Y. (49).

Foster, Dr. Romulus A., 2207 Massachusetts Ave., Washington, D. C. (63). **K**

Foster, Shirley W., care General Chemical Co. of California, San Francisco, Cal. (58). **F**

*Foster, William, Ph. D., Professor of Chemistry, Princeton University, Princeton, N. J. (60). 1911. C

Foster, W. T., 1625½ North Capitol St., Washington, D. C. (62). A

*Foster, William Trufant, Ph. D., LL. D., President, Reed College, Portland, Ore. (60). 1910. I L

*Foulk, Charles William, Professor of Analytical Chemistry, Ohio State University, Columbus, Ohio. (51). 1906. C

*Fountain, Claude Russell, Ph. D., Professor of Physics, University of Georgia, Athens, Ga. (58). 1910. A B

Foust, Thomas Bledsoe, La Follette, Tenn. (58). C D

Fouts, Jesse J., M. D., Gonzales, Texas. (60). K

*Fowle, Frederick Eugene, Astrophysical Observatory, Smithsonian Institution, Washington, D. C. (58). 1909. A B

Fowler, John V., M. D., 312 Grand Ave., Chicago, Ill. (58). K

Fox, Charles P., 395 Doyle St., Akron, Ohio. (63).

*Fox, Henry, Ph. D., U. S. Entomological Laboratory, Stonehenge, Charlottesville, Va. (52). 1906. F

Fox, Hugh F., 50 Union Square, New York, N. Y. (63).

*Fox, Philip, Professor of Astronomy, Dearborn Observatory, Evanston, Ill. (53). 1909. A B

*Fox, William, Professor of Physics, and Head of Department, College of the City of New York, New York, N. Y. (50). 1906. B D

Fox, William A., Glencoe, Ill. (58). D

*Foxworthy, Fred William, Ph. D., College of Agriculture and Forestry, Los Banos, Luzon, P. I. (52). 1911. G M

*Fracker, George Cutler, Ph. D., Cedar Rapids, Iowa. (52). 1905. H L

Fraenkel, Joseph, M. D., 114 East 66th St., New York, N. Y. (50). H K

*Francis, Charles Kenworthy, Ph. D., Professor of Chemistry, Oklahoma Agricultural Experiment Station, Stillwater, Okla. (50). 1910. C

Francis, Mark, D. V. M., Texas Agricultural Experiment Station, College Station, Texas. (63). F

*Frandsen, Peter, Professor of Zoology and Biology, University of Nevada, Reno, Nev. (62). 1915. F

Frank, Henry, 378 Vanderbilt Ave., Brooklyn, N. Y. (57). C

Frank, Henry, P. O. Box 136, Montrose, N. Y. (65). I L

Frankenthal, Lester E., M. D., 4825 Woodlawn Ave., Chicago, Ill. (60). K

*Frankforter, George Bell, Ph. D., Dean, College of Chemistry, University of Minnesota, Minneapolis, Minn. (43). 1901. C

*Frankland, Frederick William, "Okataina," Foxton, Manawatu, New Zealand. (50). 1906. A B E H I K

Franklin, Arthur I., 120 Firglade Ave., Springfield, Mass. (58). C

*Franklin, Mrs. Christine Ladd, LL. D., 527 W. 110th St., New York, N. Y. (47). 1899. H

*Franklin, Edward Curtis, Ph. D., Professor of Organic Chemistry, Leland Stanford Junior University, Stanford University, Cal. (47). 1900. B C

*Franklin, Milton Washington, M. D., E. E., Sprague Electric Works, Bloomfield, N. J. (60). 1913. D K

*Franklin, William Suddards, Sc. D., Professor of Physics, Lehigh University, South Bethlehem, Pa. (36). 1892. **B**

*Franz, Shepherd Ivory, Ph. D., M. D., Professor of Physiology, George Washington University, Washington, D. C. (55). 1909. **H K**

*Fraps, George Stronach, Ph. D., Associate Chemist, Texas Agricultural Experiment Station, College Station, Tex. (54). 1906. **C**

Frasch, Hans A., Exchange Court, 52 Broadway, New York, N. Y. (56). **C**

*Fraser, C. McLean, Ph. D., Biological Station, Nanaimo, B. C., Can. (63). 1914. **F**

Fraser, D. Kennedy, Assistant Professor of Education, Cornell University, Ithaca, N. Y. (66). **L**

Fraser, George Corning, 20 Exchange Place, New York, N. Y. (57). **E**

*Fraser, Samuel, P. O. Box N, Geneseo, N. Y. (58). 1911. **G**

Frazer, Frank Dean, 1206 Haight Ave., Portland, Ore. (58). **A G**

*FRAZER, JOHN, Ph. D., Assistant Professor of Chemistry, and Dean, Towne Scientific School, Philadelphia, Pa. (58). 1909. **C**

*Frazier, Charles Harrison, M. D., Professor of Clinical Surgery, University of Pennsylvania, Philadelphia, Pa. (54). 1911. **K**

*Frear, William, Ph. D., 246 South Pugh St., State College, Pa. (33). 1886. **C**

Fred, Edwin Brown, Ph. D., College of Agriculture, Madison, Wis. (60). **F K**

Fredenburg, George B., P. O. Box 216, Point Richmond Station, Richmond, Cal. (65).

*Frederick, Charles Warnock, 24 Lake View Terrace, Rochester, N. Y. (50). 1906. **A B C**

Frederick, J. M. H., 1429 Wagar Ave., Lakewood, Ohio. (64). **L**

Free, Edward Elway, 1105 Madison Ave., Baltimore, Md. (58). **B C E**

Freeborn, Stanley B., University of California, Berkeley, Cal. (66). **G**

*Freedman, William Horatio, Professor of Electrical Engineering, University of Vermont, Burlington, Vt. (50). 1901. **B D**

*Freeman, Charles, Ph. D., Director, Clark Chemical Laboratory, Westminster College, New Wilmington, Pa. (50). 1915. **C**

*Freeman, Edward Monroe, Ph. D., Professor of Vegetable Pathology and Botany, University Farm, St. Paul, Minn. (58). 1909. **G**

*Freeman, Frank Nugent, Ph. D., School of Education, University of Chicago, Chicago, Ill. (58). 1911. **H L**

Freeman, Gay Nichols, E. M., Thermopolis, Wyoming. (60). **D**

Freeman, Miss Harriet E., 37 Union Park, Boston, Mass. (57). **E G**

*Freeman, John Ripley, C. E., Sc. D., 235 Arlington Ave., Providence, R. I. (60). 1911. **D**

Freeman, Merrill P., Tucson, Ariz. (66).

FRENCH, MISS CAROLINE L. W., 42 Commonwealth Ave., Boston, Mass. (60).

*French, George Hazen, 912 South Normal Ave., Carbondale, Ill. (54). 1906. **F G**

French, Harley Ellsworth, M. D., 316 Hamline Ave., University, N. D. (63). **K**

French, John Shaw, Ph. D., 151 Morris Ave., Providence, R. I. (58). **A B L**

*French, Owen Bert, U. S. Coast and Geodetic Survey, Washington, D. C. (52). 1915. **A D E**

French, Raymond Albert, 3618 5th St., Des Moines, Iowa. (65).

*French, Rev. Thomas, Jr., Ph. D., R. F. D. 4, Box 240, Sebastopol, Cal. (30). 1883. **B H**

*Frerichs, Frederick W., Ph. D., 4320 Washington Boulevard, St. Louis, Mo. (58). 1911. **C**

Frick, John H., Professor of Mathematics, Central Wesleyan College, Warrenton, Mo. (27). **A B E**

*Friedenwald, Harry, M. D., Associate Professor of Ophthalmology and Otology, College of Physicians and Surgeons, Baltimore, Md. (51). 1909. **K**

Friedenwald, Julius, M. D., Professor of Gastroenterology, College of Physicians and Surgeons, Baltimore, Md. (63). **K**

Frierson, L. S., Frierson, La. (54). **F**

*Fries, Harold H., Ph. D., 92 Reade St., New York, N. Y. (40). 1898. **C K**

*Fries, J. August, Assistant Director, Institute of Animal Nutrition, Pennsylvania State College, State College, Pa. (57). 1915. **C**

Fries, John W., President, Peoples National Bank, Winston-Salem, N. C. (56). **C**

Friesell, H. Edmund, D. D. S., School of Dentistry, University of Pittsburgh, Pittsburgh, Pa. (65). **K**

Frink, Robert L., M. E., Lancaster, Ohio. (63). **D**

Frisbie, Jesse F., M. D., P. O. Box 455, Newton, Mass. (29). **E H K**

*Frisby, Edgar, Professor of Mathematics, U. S. N., 1607 31st St. N. W., Washington, D. C. (28). 1880. **A**

*Frissell, Algernon Sydney, President, Fifth Avenue Bank of New York, 530 Fifth Ave., New York, N. Y. (52). 1915. **I**

*Frissell, Lewis Fox, M. D., 113 East 56th St., New York, N. Y. (57). 1908. **K**

Froeberg, Sven, Ph. D., Professor of Psychology, Upsala College, Kenilworth, N. Y. (66). **H**

*Fromme, Fred Denton, Ph. D., Purdue University, La Fayette, Ind. (63). 1913. **G**

*Frost, Edwin Brant, Sc. D., Director, Yerkes Observatory, Williams Bay, Wis. (38). 1890. **A B**

Frost, Howard Brett, Ph. D., Citrus Experiment Station, Riverside, Cal. (65). **G**

Frost, Miss Lilla Ninette, Centre Sandwich, N. H. (57). **G**

Frost, W. H., M. D., U. S. Public Health Service, Cincinnati, Ohio. (63).

*Frost, William Dodge, Ph. D., Associate Professor of Bacteriology, University of Wisconsin, Madison, Wis. (50). 1906. **K**

*Frothingham, Channing, Jr., M. D., 395 Marlborough St., Boston, Mass. (60). 1911. **K**

Frugone, Frank L., 178 Park Row, New York, N. Y. (57).

Fry, Charles, 21 Commonwealth Ave., Boston, Mass. (53). **I**

*Fry, Harry Shipley, Ph. D., University of Cincinnati, Cincinnati, Ohio. (60). 1911. **C**

Frye, Maud J., M. D., 211 Highland Ave., Buffalo, N. Y. (60). **K**

*Frye, Theodore Christian, Ph. D., Professor of Botany, University of Washington, Seattle, Wash. (53). 1909. **G**

Fryer, James Robert, Department of Agriculture, Ottawa, Canada. (65). **G**

Fryer, Roy M., Spadra, Cal. (61).

Fuchs, Ernesto, M. E., 87 C. Progreso, Guadalajara, Mexico. (58). **D**

Fuchs, Fernando, C., E. M., Casilla 981, Lima, Peru, S. A. (60). **D**

*Fulcher, Gordon Scott, Ph. D., Department of Physics, University of Wisconsin, Madison, Wis. (58). 1911. **B**

*Fuller, Caleb Allen, Ph. D., 71 Charles Field St., Providence, R. I. (54). 1906. **F**

Fuller, Charles Gordon, M. D., 500 Reliance Building, Chicago, Ill. (35). **F K**

FULLER, FRANK, 61 Fifth Ave., New York, N. Y. (57).

Fuller, Frederick D., Chief Deputy State Chemist, Agricultural Experiment Station, La Fayette, Ind. (60). **C**

Fuller, George Damon, Department of Botany, University of Chicago, Chicago, Ill. (62). **G**

*Fuller, George Warren, 170 Broadway, New York, N. Y. (50). 1903. **D**

*Fuller, Harry V., Ph. D., Professor of Chemistry, Pei-Yang University, Hsiku, Tientsin, China. (60). 1915. **C**

*FULLER, MYRON LESLIE, 185 Spring St., Brockton, Mass. (50). 1905. **E**

*Fullerton, George Stuart, Ph. D., LL. D., Leopoldstrasse 7, Munich, Bavaria. (64). 1914. **H**

Fullmer, Edward Lawrence, Professor of Biology, Baldwin University, Berea, Ohio. (50). **F**

*Fulmer, Elton, Professor of Chemistry, State College of Washington, Pullman, Washington. (58). 1911. **C E**

*Fulton, Harry Rascoe, Professor of Botany, North Carolina College of A. and M. Arts, West Raleigh, N. C. (58). 1911. **G**

*Fulton, Robert Burwell, LL. D., Miller School, Va. (21). 1887. **A B**

Furlow, Floyd Charles, 11th Ave. and 26th St., New York, N. Y. (50). **D**

Furman, Davis, M. D., 229 River St., Greenville, S. C. (60). **K**

*Furness, Caroline Ellen, Ph. D., Associate Professor of Astronomy, Vassar College, Poughkeepsie, N. Y. (47). 1899. **A**

Furniss, Henry Watson, M. D., Ph. D., American Consulate, Port-au-Prince, Haiti. (64).

Furry, W. D., President, Ashland College, Ashland, Ohio. (63). **L**

Furst, Clyde Bowman, Secretary, Carnegie Foundation for the Advancement of Teaching, 576 5th Ave., New York, N. Y. (52).

Futcher, Thomas Barnes, M. D., 23 West Franklin St., Baltimore, Md. (60). **K**

Gaba, Meyer Grupp, Dartmouth College, Hanover, N. H. (62). **A**

Gabe, William Edwin, 40 Francis St., Fenway Station, Boston, Mass. (65). **K**

Gabriel, George Andrew, 5 Shepard St., Worcester, Mass. (58). **A B C D E**

Gaehr, Paul Frederick, Ph. D., Professor of Physics, Wells College, Aurora, N. Y. (58). **A B**

Gaff, Thomas T., 1520 20th St. N. W., Washington, D. C. (52).

Gage, Homer, M. D., 8 Chestnut St., Worcester, Mass. (61). **K**

Gage, Otis Amsden, Ph. D., Assistant Professor of Physics, University of Wisconsin, Madison, Wis. (61). **B**

*Gage, Simon Henry, Emeritus Professor of Histology and Embryology, Cornell University, Ithaca, N. Y. (28). 1881. **F**

*Gage, Stephen De M., Rhode Island State Board of Health, Providence, R. I. (60). 1911. **K**

*Gage, Mrs. Susanna Phelps, 4 South Ave., Ithaca, N. Y. (48). 1900. **F**

Gage-Day, Mary, M. D., 207 Wall St., Kingston, N. Y. (51). **K**

*Gager, Charles Stuart, Ph. D., Director, Brooklyn Botanic Garden, Brooklyn, N. Y. (50). 1909. **G**

Gahagan, William L., M. D., 87 St. Nicholas Place, New York, N. Y. (51). **K**

Gahm, James L., M. D., Jackson, Ohio. (60). **K**

Gaige, Frederick M., University of Michigan, Ann Arbor, Mich. (65). **F**

Gail, Floyd Whitney, Assistant Professor of Botany, University of Idaho, Moscow, Idaho. (63). **G**

Gaines, Clement Carrington, LL. D., President, Eastman National Business College, Poughkeepsie, N. Y. (65). **I L**

GAINES, WALTER LEE, University of Chicago, Chicago, Ill. (65).

Gaines, William D., M. D., Lafayette, Ala. (60). **K**

*Galbraith, John, Professor of Engineering, University of Toronto, Toronto, Canada. (38). 1889. **D**

*Gale, Arthur Sullivan, Ph. D., Professor of Mathematics, University of Rochester, Rochester, N. Y. (54). 1906. **A**

*Gale, Henry Gordon, Ph. D., Associate Professor of Physics, University of Chicago, Chicago, Ill. (58). 1910. **B**

Gallagher, John P., S. J., Professor of Inorganic Chemistry, Holy Cross College, Worcester, Mass. (66). **C**

Galliver, George Alfred, M. D., 90 Magnolia Ave., Arlington, N. J. (64). **A K**

*Galloway, Beverly Thomas, LL. D., Director, New York State College of Agriculture, Ithaca, N. Y. (37). 1890. **G**

Galloway, David H., M. D., Roswell, New Mexico. (60). **K**

Galloway, John D., C. E., 1500 Euclid Ave., Berkeley, Cal. (60). **D**

*Galloway, Thomas Walton, Ph. D., Professor of Biology, James Millikin University, Decatur, Ill. (45). 1901. **F G H L**

Gamble, Charles D., M. D., Spencerville, Ohio. (60). **K**

*Gane, Henry Stewart, Ph. D., Santa Barbara, Cal. (58). 1910. **E**

Ganong, Walter Kierstead, 9 Coburg St., St. John, N. B., Canada. (57). **D**

*Ganong, William Francis, Ph. D., Professor of Botany, Smith College, Northampton, Mass. (49). 1900. **G**

*Ganz, Albert Frederick, M. E., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. (52). 1906. **B D**

*Garber, John Frederick, Ph. D., Yeatman High School, St. Louis, Mo. (56). 1911. **G**

Garber, Miss Lida J., 2706 Claremont Ave., Berkeley, Cal. (65).

Garcin, Ramon D., M. D., 2618 East Broad St., Richmond, Va. (51). **C K**

Gard, Willis Lloyd, Professor of History and Principles of Education, State Normal College, Athens, Ohio. (64). **L**

Gardiner, Rev. Frederic, 421 West Price St., Germantown, Pa. (47). **F L**

Gardner, Rev. Corliss B., Spencerport, N. Y. (29). **A I**

*Gardner, James Henry, Ph. D., 212 Clinton Building, Tulsa, Okla. (62). 1913. **E**

Gardner, John R., 24 East 99th St., New York, N. Y. (58).

Gardner, Julia Anna, Ph. D., Maryland Geological Survey, Baltimore, Md. (60). **E**

Gardner, Max William, Princeton, Wis. (64). **G**

*Gardner, Nathaniel Lyon, Ph. D., Assistant Professor of Botany, University of California, Berkeley, Cal. (62). 1915. **G**

Gardner, Placida, M. D., 640 Cons. Realty Building, Los Angeles, Cal. (65). **K**

*Garman, Prof. Samuel, Museum of Comparative Zoology, Cambridge, Mass. (20). 1874. **E F**

Garner, Clem. L., U. S. Coast and Geodetic Survey, Manila, P. I. (62). **D**

*Garner, James Bert, Ph. D., Mellon Institute, University of Pittsburgh, Pittsburgh, Pa. (53). 1909. **C**

*Garrett, Albert Osbun, Secretary, Utah Academy of Sciences, 615 South 9th East St., Salt Lake City, Utah. (50). 1911. **G**

*Garrett, J. B., North Louisiana Experiment Station, Calhoun, La. (58). 1914. **F**

GARRETT, MRS. T. HARRISON, Evergreen-on-Avenue, Baltimore, Md. (60).

Garrison, Wilbert A., Assistant Professor of Mathematics, Union College, Schenectady, N. Y. (58). **A L**

Garver, Madison M., Associate Professor of Physics, Pennsylvania State College, State College, Pa. (64). **B**

Garver, Samuel, Redfield, S. D. (64). **G**

*Garvin, John Brewer, Principal, South Side High School, Denver, Colo. (50). 1911. **C**

Gary, Lester Bennett, 31 Berkeley Place, Buffalo, N. Y. (53). **F**

Gates, Arthur I., 2614 Dwight Way, Berkeley, Cal. (66).

*Gates, Burton Noble, Ph. D., Professor of Psychology, Massachusetts Agricultural College, Amherst, Mass. (58). 1914. **F G H K**

*Gates, Fanny Cook, Ph. D., Professor of Physics, Grinnell College, Grinnell, Iowa. (50). 1907. **A B L**

Gates, Frank Caleb, Ph. D., 4540 North Lincoln St., Chicago, Ill. (65). **G**

Gates, Frederick Lamont, M. D., Rockefeller Institute, for Medical Research, New York, N. Y. (65). **K**

*Gates, Reginald Ruggles, Ph. D., Royal College of Science, South Kensington, London, S. W., England. (58). 1909. **F G**

Gaub, John, 134 Easton Ave., New Brunswick, N. J. (58). **A C**

Gaumnitz, Amos J., Better Farming Association, Fessenden, N. D. (65). **G**

Gaumnitz, Daniel Asher, Assistant Professor of Animal Husbandry, Agricultural Experiment Station, St. Paul, Minn. (55). **F**

Gause, Fred Taylor, M. E., care Standard Oil Co., 26 Broadway, New York, N. Y. (40). **D**

Gavett, George Irving, Assistant Professor of Mathematics, University of Washington, Seattle, Wash. (58). **A**

Gavett, Weston, 560 North 12th St., East St. Louis, Ill. (66). **C F**

*Gay, Frederick Parker, M. D., Head, Department of Pathology, University of California, Berkeley, Cal. (60). 1911. **K**

Gaylord, Joseph S., Normal School, Winona, Minn. (62).

Geballe, Pauline I., 1949 Pine St., San Francisco, Cal. (57). **B C**

Gee, Wilson Parham, Ph. D., Professor of Biology, Emory College, Oxford, Ga. (63). **F G**

*Geer, William Chauncey, Ph. D., 630 Diagonal Road, Akron, Ohio. (58). 1911. **B C**

Geiser, Samuel Wood, Professor of Biology, Guilford College, Guilford College, N. C. (65). **F**

*Geisler, Joseph Frank, New York Mercantile Exchange, New York, N. Y. (50). 1911. **C**

*Geisse, William F. G., R. F. D. 2, Great Barrington, Mass. (57). 1913. **H I**

*Geissler, Ludwig Reinhold, Ph. D., University of Georgia, Athens, Ga. (56). 1911. **H L**

*Genthe, Karl Wilhelm, Ph. D., Blumenstrasse 2, Chemnitz, Germany. (50). 1901. **F L**

Gentsch, Charles, M. D., 2826 Franklin Ave., Cleveland, Ohio. (60). **K**

George, D. C., Washington Agricultural Experiment Station, Pullman, Wash. (65). **G**

*George, Russell D., Professor of Geology, University of Colorado, Boulder, Colo. (53). 1909. **E**

*Georgeson, Charles Christian, Professor of Agriculture, Alaska Agricultural Experiment Station, Sitka, Alaska. (60). 1911. **G**

Gephart, Frank, 714 West 181st St., New York, N. Y. (57). **C**

Gerber, Howard Levi, 507 Broadway, Troy, N. Y. (61). **C**

Gerhard, Charles Herbert, M. D., 508 No. 9th St., Reading, Pa. (64). **K**

Gerhard, William J., Field Museum of Natural History, Chicago, Ill. (60). **F**

Gericke, William Frederick, California Agricultural Experiment Station, Berkeley, Cal. (64). **G**

*Germann, George B., Ph. D., Principal, Public School No. 130, Brooklyn, N. Y. (49). 1901. **F H L**

Gernert, Walter Byron, Ph. D., Agricultural Experiment Station, Urbana, Ill. (63). **G**

*Gerould, John Hiram, Ph. D., Assistant Professor of Zoology, Dartmouth College, Hanover, N. H. (58). 1911. **F**

*Gerry, Miss Eloise, 616 Lake St., Madison, Wis. (63). 1915. **G**

Gescheidt, Miss Adelaide, 817 Carnegie Hall, New York, N. Y. (66). **A L**

*Getman, Frederick Hutton, Ph. D., 66 Glenbrook Road, Stamford, Conn. (45). 1909. **B**

Geyer, William E., 78 Second St., New York, N. Y. (60). **C**

Gibbs, David, Ph. D., Superintendent of Schools, Meriden, Conn. (62). **L**

Gibbs, George, C. E., Pennsylvania Station, New York, N. Y. (57). **B C D E**

*Gibbs, Harry Drake, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **C**

Gibbs, Winifred Stuart, 70 Irving Place, New York, N. Y. (62). **I**

Gibson, Arthur, M. E., P. O. Box 200, Nome, Alaska. (60). **D**

Gibson, Edmund H., P. O. Box 207, Charleston, Mo. (64). **F**

*Gibson, Robert Banks, Ph. D., Assistant Professor of Physiological Chemistry, University of Missouri, Columbia, Mo. (58). 1911. **K**

Gibson, T. H., 3320 Waialae Ave., Honolulu, Hawaii. (66).

*Giddings, Nahum James, Professor of Plant Pathology, West Virginia Agricultural Experiment Station, Morgantown, W. Va. (58). 1911. **C G**

*Gidley, James Williams, U. S. National Museum, Washington, D. C. (62). 1911. **E**

Gierisch, Otto Thomas, E. E., 85 Clinton St., Brooklyn, N. Y. (60). **D**

*Gies, William John, Ph. D., Professor of Biological Chemistry, College of Physicians and Surgeons, New York, N. Y. (49). 1901. **C K**

*Giffard, Walter M., P. O. Box 308, Honolulu, Hawaii. (58). 1915. **F**

Giffen, R. B., M. D., Hagelstein Building, Sacramento, Cal. (66). **K**

Gifford, Harold, M. D., 567 Brandeis Block, Omaha, Nebr. (51). **K**

*Gilbert, Alfred Holley, Professor of Botany, State University of Kentucky, Lexington, Ky. (63). 1915. **G**

*Gilbert, Arthur Witter, Ph. D., Assistant Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (58). 1911. **G**

*Gilbert, Charles Henry, Ph. D., Professor of Zoology, Leland Stanford Junior University, Stanford University, Cal. (65). 1915. **F**

*Gilbert, Edward M., Department of Botany, University of Wisconsin, Madison, Wis. (62). 1913. **G**

*GILBERT, GROVE KARL, LL. D., U. S. Geological Survey, Washington, D. C. (18). 1874. E

Gilbert, J. J., U. S. Coast and Geodetic Survey, Washington, D. C. (62).

Gilbert, James H., 1103 Atlanta National Bank Building, Atlanta, Ga. (62).

Gilbert, James Zaccheus, 3300 Griffin Ave., Los Angeles, Cal. (61).

Gilbert, John Philo, Professor of Biology, Southern Illinois Normal School, Carbondale, Ill. (60). F

Gilbert, Newell Clark, M. D., 8 Illinois St., Chicago Heights, Ill. (64). K

*Gilbert, Norman Everett, Ph. D., Professor of Physics, Dartmouth College, Hanover, N. H. (51). 1906. A B

Gilbert, Walter M., Assistant Secretary, Carnegie Institution of Washington, Washington, D. C. (54). L

*Gilbert, William W., U. S. Department of Agriculture, Washington, D. C. (63). 1913. G

*Gilbertson, Albert N., Ph. D., University of Minnesota, Minneapolis, Minn. (61). 1913. H

Gilchrist, Maude, Associate Professor of Botany, Wellesley College, Wellesley, Mass. (65). G

*Gilchrist, Thomas Caspar, M. D., Clinical Professor of Dermatology, Johns Hopkins University, Baltimore, Md. (52). 1911. K

*Gildersleeve, Nathaniel, M. D., Professor of Microbiology and Bacterio-Pathology, Thomas W. Evans Museum and Dental Institute, Philadelphia, Pa. (52). 1906. C F G K

*Giles, Albert William, Professor of Geology and Chemistry, Kansas Wesleyan University, Salina, Kans. (60). 1915. C E

*Gill, Adam Capen, Ph. D., Assistant Professor of Mineralogy and Petrography, Cornell University, Ithaca, N. Y. (38). 1894. B E

*Gill, Augustus Herman, Ph. D., Professor of Technical Analysis, Massachusetts Institute of Technology, Boston, Mass. (44). 1896. C

Gill, Herbert A., 612 14th St. N. W., Washington, D. C. (66). F

*Gill, John Boyd, Monticello, Fla. (62). 1914. F

Gill, Miss Laura Drake, Trinity College, Durham, N. C. (58). A

Gill, Thomas Buell, Lowell Observarory, Flagstaff, Ariz. (66). A

Gillespie, Elizabeth, 604 Botetout Apt., Norfolk, Va. (66). B C L

Gillespie, Louis John, 1424 R St., N. W., Washington, D. C. (65). F K

*Gillespie, William, Ph.D., Professor of Mathematics, Princeton University, Princeton, N. J. (58). 1909. A

Gillet, Harry Orrin, 6121 Evans Ave., Chicago, Ill. (60). A

*Gillett, Arthur Lincoln, Professor of Apologetics, Hartford Theological Seminary, Hartford, Conn. (54). 1906.

Gillett, Harry, 813 Superior Ave., N. W., Cleveland, Ohio. (63).

Gillette, Arthur Alfred, M. D., 511 North Washington St., Rome, N. Y. (60). K

*Gillette, Clarence Preston, Professor of Zoology, Colorado Agricultural College, Fort Collins, Colo. (50). 1901. F

Gilley, Frank Milton, 21 John St., Chelsea, Mass. (58). B C D K L
Gilliland, Samuel Howard, M. D., Marietta, Pa. (63). K
Gilman, Albert Franklin, Professor of Chemistry, Ripon College, Ripon, Wis. (62). C
Gilman, M. French, Sacaton, Arizona. (65).
*Gilmore, John Washington, Head, Department of Agronomy, University of California, Berkeley, Cal. (58). 1911. G
Gilmore, L. H., 649 Galena Avenue, Pasadena, Cal. (65).
Gilmore, Melvin R., Ph. D., Curator, Historical Museum, University of Nebraska, Lincoln, Nebr. (66). E G H
Ginn, Thomas D., 12 Westminster Ave., Roxbury Station, Boston, Mass. (65). D
*Girault, A. Arsene, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (57). 1913. F
*Girty, George Herbert, Ph. D., U. S. Geological Survey, Washington, D. C. (48). 1903. E
Girvin, John Harper, M. D., 2120 Walnut St., Philadelphia, Pa. (60). K
Given, Arthur, 224 Broad St., Newark, N. J. (57). C D
*Given, Guy C., Assistant Professor of Agronomy, Pennsylvania State College, State College, Pa. (60). 1915. C M
Givler, J. P., Professor of Biology, Southwestern College, Winfield, Kans. (66). F
*Gladding, Thomas Stantial, 181 Front St., New York, N. Y. (60). 1911. C
Glaive, August F., State Food and Drug Laboratory, Berkeley, Cal. (65).
*Glaser, Charles, Analytical and Consulting Chemist, 22 South Gay St., Baltimore, Md. (49). 1911. C
*Glaser, Otto Charles, Ph. D., Assistant Professor of Zoology, University of Michigan, Ann Arbor, Mich. (58). 1910. F G
Glaser, R. W., Bussey Institution, Forest Hills, Boston, Mass. (65).
Glasgow, Grace, Department of Bacteriology, Kansas State Agricultural College, Manhattan, Kansas. (66). K
*Glasgow, Hugh, Ph. D., New York Agricultural Experiment Station, Geneva, N. Y. (61). 1915. F M
Glasgow, Robert Douglas, Ph. D., Natural History Building, Urbana, Ill. (61). F
Glatfelder, Edith E., 3615 Lafayette Ave., St. Louis, Mo. (63). E G
*Gleason, Henry Allan, Ph. D., Assistant Professor of Botany, University of Michigan, Ann Arbor, Mich. (50). 1909. G
Glenk, Robert, Louisiana State Museum, Jackson Square, New Orleans, La. (58). C
*Glenn, Leonidas Chalmers, Ph. D., Professor of Geology, Vanderbilt University, Nashville, Tenn. (50). 1903. E
*Glenn, Oliver Edmunds, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (54). 1907. A
Glenn, Prof. Pressley Adams, 1018 West Oregon St., Urbana, Ill. (62). F

Glenn, Thomas H., Ph. D., 1314 East 62d St., Chicago, Ill. (63).
GLENNY, WILLIAM H., 810 West Ferry St., Buffalo, N. Y. (25).
Glessner, John Jacob, 1800 Prairie Ave., Chicago, Ill. (58).
Glover, Henry, 6445 Emlen St., Germantown, Philadelphia, Pa. (60). **C**
*Glover, James Waterman, Ph. D., Professor of Mathematics and Insurance, University of Michigan, Ann Arbor, Mich. (63). 1914. **A**
*Goddard, Henry Herbert, Ph. D., Vineland, N. J. (57). 1910. **L**
Goddard, Loring H., U. S. Department of Agriculture, Washington, D. C. (64). **G**
Goddard, Malcolm, Butler Building, San Francisco, Cal. (66).
*Goddard, Pliny Earle, Ph. D., Associate Curator of Anthropology, American Museum of Natural History, New York, N. Y. (62). 1912. **F H**
Goddard, Robert Hutchings, Ph. D., Department of Physics, Clark College, Worcester, Mass. (63). **B**
Godfrey, Almon Tanner, M. D., Hope College, Holland, Mich. (60). **C K**
Godfrey, Charles C., M. D., 753 Lafayette St., Bridgeport, Conn. (51). **G K**
Godfrey, Hollis, Sc. D., M. E., President, Drexel Institute, Philadelphia, Pa. (66). **D**
Goding, Frederic Webster, M. D., Ph. D., American Consulate General, Guayaquil, Ecuador. (60). **F K**
Godshall, W. Vernon, 221 Comstock Place, Syracuse, N. Y. (63).
Goebel, Julius, Ph. D., Professor of German, University of Illinois, Urbana, Ill. (60). **L**
Goethe, C. M., Nicolans Building, Sacramento, Cal. (66).
*Goetsch, Emil, M. D., Ph. D., Peter Bent Brigham Hospital, Boston, Mass. (63). 1913. **K**
Goetze, Frederick Arthur, Dean, Schools of Mines, Engineering and Chemistry, Columbia University, New York, N. Y. (57). **C D**
Goldan, S. Ormond, M. D., 59 West 74th St., New York, N. Y. (60). **K**
Goldbaum, Jacob Samuel, 212 Winona Road, Norwood, Pa. (60). **C**
*Golden, Asher, M. E., 1074 Longfellow Ave., New York, N. Y. (54). 1906. **B D**
Golden, Isaac J. K., M. D., 2238 West North Ave., Chicago, Ill. (58). **K**
*Goldfarb, A. J., Ph. D., College of the City of New York, New York, N. Y. (57). 1908. **F K**
Goldman, Agnes, 132 East 70th St., New York, N. Y. (66). **H K**
*Goldman, Marcus Isaac, Ph. D., U. S. Geological Survey, Washington, D. C. (58). 1915. **E**
GOLDSBOROUGH, JOHN BYRON, Croton on Hudson, N. Y. (57).
Goldsborough, Francis C., M. D., 459 Franklin St., Buffalo, N. Y. (60). **K**
*GOLDSCHMIDT, SAMUEL ANTHONY, Ph. D., 11 Broadway, New York, N. Y. (24). 1880. **C**
Goldsmith, Byron B., 19 East 74th St., New York, N. Y. (58). **B C D**
*GOLDSMITH, EDWARD, Ph. D., 658 North 10th St., Philadelphia, Pa. (29). 1892. **B C**

*Goldthwait, James Walter, Ph. D., Assistant Professor of Geology, Dartmouth College, Hanover, N. H. (58). 1908. **E**

Goldthwait, Joel E., M. D., 372 Marlborough St., Boston, Mass. (60). **K**

*Goldthwaite, Nellie Esther, Ph. D., Assistant Professor of Household Science, University of Illinois, Urbana, Ill. (47). 1910. **C K**

Goltman, Max, M. D., 410 Union Ave., Memphis, Tenn. (60). **K**

*Gomberg, Moses, Sc. D., 725 Oxford Road, Ann Arbor, Mich. (51). 1904. **C**

Gomez, Dr. Liborio, Mati, Moro, P. I. (65).

*Gooch, Frank Austin, Ph. D., Professor of Chemistry, Yale University, New Haven, Conn. (25). 1880. **C**

Good, Edwin Stanton, Professor of Animal Husbandry, Kentucky Agricultural Experiment Station, Lexington, Ky. (63). **M**

Good, Grover Charles, Head Master, Howe School, Howe, Ind. (63). **L**

*Goodale, George Lincoln, M. D., LL. D., Emeritus Professor of Botany, Harvard University, Cambridge, Mass. (18). 1875. **G**

*Goodale, Hubert Dana, Ph. D., Mass. Agricultural College, Amherst, Mass. (57). 1915. **F**

*Goodale, Joseph Lincoln, M. D., 258 Beacon St., Boston, Mass. (50). 1906. **F K**

Goodale, Stephen Lincoln, Professor of Metallurgy, University of Pittsburgh, Pittsburgh, Pa. (61). **D**

*Goode, John Paul, Ph. D., Associate Professor of Geography, University of Chicago, Chicago, Ill. (52). 1905. **E H I L**

Goodell, F. E., 608 Youngman Building, Des Moines, Iowa. (60).

Goodell, Nettie D., Sedgwick, Kansas. (65). **I**

Goodhue, E. S., The Doctorage, Holualoa, No. Koua, Hawaii. (66).

Goodman, Abraham Lincoln, M. D., 136 West 87th St., New York, N. Y. (56). **H I K**

Goodman, Henry M., M. D., 721 3d Ave., Louisville, Ky. (60). **K**

Goodnow, Henry R., 98 Riverside Drive, New York, N. Y. (32). **B C**

Goodrich, Julia Irene, Secretary, Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (60). **F**

Goodridge, Frederic Grosvenor, M. D., 122 East 78th St., New York, N. Y. (64). **K**

*Goodspeed, Arthur Willis, Ph. D., Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (47). 1898. **B**

Goodspeed, G. E., Jr., Corvallis, Oreg. (66).

*Goodspeed, Thomas Harper, Department of Botany, University of California, Berkeley, Cal. (63). 1915. **G**

Goodwin, Harold, 3927 Locust St., Philadelphia, Pa. (65).

*Goodwin, Harry Manley, Ph. D., Professor of Physics, Massachusetts Institute of Technology, Boston, Mass. (47). 1901. **B**

Goodwin, W. Nelson, Jr., E. E., 30 Scheerer Ave., Newark, N. J. (58). **B D**

Gookin, Sister Helen Rita, Professor of Geography, College of St. Elizabeth, Convent Station, N. J. (65). **E**

*Gordin, Harry Mann, Ph. D., Northwestern University School of Pharmacy, Chicago, Ill. (56). 1911. **C**

*Gordon, C. McCheyne, Ph. D., Professor of Physics, Lafayette College, Easton, Pa. (48). 1906. **A B C**

*Gordon, Charles Henry, Ph. D., University of Tennessee, Knoxville, Tenn. (52). 1905. **E**

Gordon, Clarence Everett, Ph. D., Associate Professor of Zoology and Geology, Massachusetts Agricultural College, Amherst, Mass. (57). **E F**

Gordon, Frederick W., M. E., Clardon, Orchard Lane, Ft. Washington, Philadelphia, Pa. (58). **D**

*Gordon, George Byron, Ph. D., Director of Museum, University of Pennsylvania, Philadelphia, Pa. (63). 1911. **H**

Gordon, Gustavus Ede, Scientific Director, Walker-Gordon Laboratory Co., Chevy Chase, Md. (50). **F**

Gordon, John, 235 Elm St., Buffalo, N. Y. (62). **K**

Gordon, Marjorie, 159 Dowling Ave., Toronto, Can. (63). **G**

Gordon, Neil E., The Park School, Baltimore, Md. (65). **A C L**

*Gorham, Frederic Poole, Associate Professor of Biology, Brown University, Providence, R. I. (53). 1906. **F K**

Gorter, Nathan R., 1 West Biddle St., Baltimore, Md. (60). **K**

Gortner, Ross Aiken, Ph. D., University Farm, St. Paul, Minn. (63). **G**

*Gorton, Frederick Russell, Ph. D., Michigan State Normal College, Ypsilanti, Mich. (58). 1911. **B**

Goss, Willard L., U. S. Department of Agriculture, Washington, D. C. (57). **G**

*Goss, William Freeman Myrick, Dean, College of Engineering, University of Illinois, Urbana, Ill. (39). 1896. **D**

*Gossard, Harry Arthur, Professor of Entomology, Ohio Agricultural Experiment Station, Wooster, Ohio. (50). 1906. **F**

Gottlieb, Maurice Barnard, 40 College House, Cambridge, Mass. (63). **C**

*Gottschalk, Victor Hugo, Professor of Chemistry, Missouri School of Mines, Rolla, Mo. (54). 1909. **C**

Goucher, John Franklin, M. D., LL. D., President, Goucher College, Baltimore, Md. (50).

*Gould, Charles Newton, Ph. D., 408 Terminal Building, Oklahoma, Okla. (53). 1907. **E**

*Gould, George Milbry, M. D., 401 Oriental Ave., Atlantic City, N. J. (51). 1902. **H K**

*Gould, Harris Perley, 114 W St., N. W., Washington, D. C. (52). 1911. **G**

*Gould, Ralph A., 319 Monadnock Building, San Francisco, Cal. (65). 1915.

Goulder, Harvey D., 7023 Euclid Ave., Cleveland, Ohio. (63).

Gouldy, Miss Jennie Augusta, 169 Montgomery St., Newburgh, N. Y. (50). I

*Gowdy, Robert Clyde, Ph. D., University of Cincinnati, Cincinnati, Ohio. (63). 1915. B

Gowen, John Whittemore, Maine Agricultural Experiment Station, Orono, Me. (65). G

Grab, Eugene G., 1436 Meridian Place, Washington, D. C. (65).

*Grabau, Amadeus William, Sc. D., Professor of Palæontology, Columbia University, New York, N. Y. (54). 1905. E

Graber, Myron Earle, Professor of Physics, Heidelberg University, Tiffin, Ohio. (58). A B D

Graber, Philip E., 9501 Pratt Ave. S. E., Cleveland, Ohio. (64).

*Graenicher, Sigmund, M. D., Ph. D., Public Museum, Milwaukee, Wis. (63). 1915. F

Graf, August V., Chemist, Water Division, Department of Public Utilities, St. Louis, Mo. (66). C

*Graff, Paul Weidemyer, Ph. D., 1775 North Ave., Bridgeport, Conn. (60). 1915. G

Graham, Douglas, M. D., 74 Boylston St., Boston, Mass. (51). K

Graham, J. O., Professor of Chemistry, Cumberland University, Lebanon, Tenn. (65). C

*Graham, James Chandler, Phillips Academy, Andover, Mass. (50). 1911. C E L

*Graham, John Young, Ph. D., Professor of Biology, University of Alabama, University, Ala. (54). 1909. F G

*Graham, William Joseph, care Equitable Life Assurance Society of the United States, 165 Broadway, New York, N. Y. (54). 1907. A I

Graham, William Pratt, Ph. D., Dean, College of Applied Science, Syracuse University, Syracuse, N. Y. (60). D

Graham-Maingot, Ferdinand Joseph, 23 St. Vincent St., Port of Spain, Trinidad, B. W. I. (57).

Grant, Percy Stickney, D. D., 7 West 10th St., New York, N. Y. (62). I

*Grant, Ulysses Sherman, Ph. D., Professor of Geology, Northwestern University, Evanston, Ill. (50). 1902. E

Grant, William V., M. D., 253 Essex St., Lawrence, Mass. (60). K

Grantham, Arthur E., Professor of Agronomy, Delaware College, Newark, Del. (66). M

Grantham, George M., Michigan Agricultural College, East Lansing, Mich. (66). M

*Granville, William Anthony, Ph. D., President, Pennsylvania College, Gettysburg, Pa. (50). 1906. A

*Grasty, John Sharshall, Sc. D., Ph. D., Mining and Economic Geologist, University, Va. (62). 1911. E

*Gratacap, Louis Pope, 77th St. and 8th Ave., New York, N. Y. (27). 1884. C E F

*Graton, Louis Caryl, E. M., Geological Museum, Cambridge, Mass. (62). 1911. E

*Grave, Benjamin Harrison, Ph. D., Knox College, Galesburg, Ill. (62). 1915. F

*Grave, Caswell, Ph. D., Associate Professor of Zoology, Johns Hopkins University, Baltimore, Md. (54). 1909. F

*Graves, Prof. Henry Solon, Chief, U. S. Forest Service, Washington, D. C. (62). 1914. G M

Graves, William B., "Rosewell," Pikesville, Md. (60).

Graves, William W., M. D., 5136 Morgan St., St. Louis, Mo. (58). H K L

Gray, C. E., 2233 H St., Eureka, Cal. (65).

*Gray, C. Truman, University of Texas, Austin, Texas. (65). 1915. L

Gray, Frank Pierce, M. D., Hammonton, Cal. (60). K

Gray, George P., Insecticide Laboratory, University of California, Berkeley, Cal. (66). F

Gray, Harold Farnsworth, 208 Ramona Building, Palo Alto, Cal. (65).

Gray, Mrs. Horace, Sunset Cottage, Glendale, Ohio. (60).

Gray, Miss Isa E., 5 Chestnut St., Boston, Mass. (60).

Gray, John H., Jr., 2040 Lake St., San Francisco, Cal. (60). C

Gray, Miss Nellie Anne, Dean of Women, State Normal School, Bellingham, Wash. (66).

Gray, Roscoe Spalding, 3535 Telegraph Ave., Oakland, Cal. (58). I

*Gray, Thomas Tarvin, Chemist, Tidewater Oil Co., Bayonne, N. J. (57). 1910. C

*Graybill, Harry W., care American Smelting and Refining Co., Salt Lake City, Utah. (58). 1914. F

Graydon, Thomas J., 603 Masonic Temple, Chicago, Ill. (58).

Greaves, Joseph Eames, Ph. D., Professor of Chemistry, Agricultural College of Utah, Logan, Utah. (63). C

Greeder, Herman, Plattsmouth, Nebraska. (60). C

Greeff, J. G. Wm., M. D., 24 West 91st St., New York, N. Y. (57). K L

*Green, Arthur Lawrence, M. D., Ph. D., Purdue University, La Fayette, Ind. (33). 1888. C K

Green, Edgar Moore, M. D., 222 Spring Garden St., Easton, Pa. (36). C G K

*Green, Prof. Franklin Theodore, 500 Divisadero St., San Francisco, Cal. (65). 1915. C

Green, James Arleigh, C. E., 111 West Monroe St., Chicago, Ill. (58). D

Green, Jerome J., Professor of Physics and Electrical Engineering, University of Notre Dame, Notre Dame, Ind. (54). B D

Green, Rufus Lot, Professor of Mathematics, Leland Stanford Junior University, Stanford University, Cal. (66). A

Green, Sarah Letty, Head, Department of Physical Sciences, Wilson College, Chambersburg, Pa. (58). A B C

Green, Susan Allen, Maryville College, Maryville, Tenn. (63).

Green, William F., Crystal Falls, Mich. (61). C E

*Greene, Arthur Maurice, Jr., Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. (54). 1905. D

*Greene, Charles Lyman, M. D., 914 Lowry Building, St. Paul, Minn. (51). 1909. **K**

*Greene, Charles Wilson, Ph. D., Professor of Physiology and Pharmacology, University of Missouri, Columbia, Mo. (50). 1901. **F K**

*Greene, Frank Cook, Missouri Geological Survey, Rolla, Mo. (61). 1915. **E**

Greene, George Kennard, 127 West Market St., New Albany, Ind. (38). **E**

Greene, Levi R., M. E., 132 Federal St., Boston, Mass. (60). **D**

Greene, Maria Louise, Ph. D., 33 High St., Mystic, Conn. (64).

Greene, Wesley, Des Moines, Iowa. (64).

GREENE, WILLIAM HOUSTON, Arch and 16th Sts., Philadelphia, Pa. (54).

Greenewald, Herbert, Normal School, West Chester, Pa. (61).

Greenfield, B. Spencer, 4420 Fleming St., Roxborough, Philadelphia, Pa. (61). **D H**

Greenhood, L. H., 519 California St., San Francisco, Cal. (65).

*Greenman, Jesse More, Ph. D., Missouri Botanical Garden, St. Louis, Mo. (47). 1899. **G**

*Greenman, Milton J., M. D., Sc. D., Director, Wistar Institute of Anatomy, Philadelphia, Pa. (60). 1911. **K**

Greenough, Charles, 3 East 9th St., New York, N. Y. (57).

Greenough, John, 59 Wall St., New York, N. Y. (49).

Greenwald, Isidor, Ph. D., 317 East 57th St., New York, N. Y. (63). **C**

Greenway, James C., M. D., Greenwich, Conn. (53). **C K**

*Greenwood, George William, Dunbar, Pa. (54). 1906. **A**

Greer, James Richard, University of Chicago, Chicago, Ill. (57). **K**

Gregg, Frank C., M. D., Manor, Texas. (60). **K**

Gregg, Wellington, Jr., 1342 Jones St., San Francisco, Cal. (65).

Gregg, William Henry, M. D., care Miss Rachel Stickney, St. Cloud, Fla. (49). **C F K**

*Gregory, Emily Ray, Ph. D., Marine Biological Laboratory, Woods Hole, Mass. (50). 1901. **F G**

*GREGORY, HERBERT ERNEST, Ph. D., Professor of Geology, Yale University, New Haven, Conn. (50). 1902. **E**

*Gregory, Louise H., Ph. D., Department of Zoology, Barnard College, Columbia University, New York, N. Y. (62). 1915. **F**

Gregory, William King, Ph. D., Sherman Square Hotel, New York, N. Y. (57). **F**

Gregory, William M., Queenstown Road, Warrensville, Ohio. (60). **A G**

Greit, Adolph J., E. M., 27 William St., New York, N. Y. (58). **D**

Gress, Prof. Ernest Milton, Edgewood Park, Pittsburgh, Pa. (64). **G**

Gribbel, John, 1513 Race St., Philadelphia, Pa. (54).

Grier, Prof. Norman McDowell, Central High School, St. Louis, Mo. (65). **F**

Griffin, Dan Baker, R. F. D. 1, Winooski, Vt. (60). **F**

*Griffin, Frank Loxley, Ph. D., Professor of Mathematics, Reed College, Portland, Ore. (60). 1910. A

*Griffin, John Joseph, Ph. D., Professor of Chemistry, Catholic University of America, Washington, D. C. (54). 1910. C

*Griffith, Herbert E., 1527 North Cherry St., Galesburg, Ill. (60). 1911. C

Griffith, Percy Tate, Stamford, Conn. (65).

*Griffiths, David, Ph. D., U. S. Department of Agriculture, Washington, D. C. (49). 1903. G

*Griggs, Leland, Ph. D., Dartmouth College, Hanover, N. H. (63). 1913. F

*Griggs, Robert Fiske, Ph. D., Assistant Professor of Botany, Ohio State University, Columbus, Ohio. (52). 1909. G

Grimm, Carl Robert, Bridge and Structural Engineer, 167 Columbia Heights, Brooklyn, N. Y. (51). D

Grimm, Samuel O., Department of Physics, Lebanon Valley College, Annville, Pa. (66). B

*Grimsley, George Perry, Ph. D., Martinsburg, W. Va. (51). 1905. E

*Grindley, Harry Sands, Sc. D., Professor of Animal Nutrition, University of Illinois, Urbana, Ill. (46). 1898. C

Grindrod, George, Chemist, Pacific Coast Condensed Milk Co., Kent, Wash. (65). C

*Grinnell, George Bird, Ph. D., 238 East 15th St., New York, N. Y. (25). 1885. H

*Grinnell, Joseph, Ph. D., Curator, Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (61). 1914. F G H

Griswold, Clifford S., Head, Department of Physics, Groton School, Groton, Mass. (50). B

Griswold, Prof. Donald Thomas, Belleville, Texas. (62).

Griswold, Harry Todd, C. E., Old Lyme, Conn. (60). D

*Griswold, Prof. Leon Stacy, Plymouth, Mass. (38). 1893. E

*Groat, Prof. Benjamin Feland, 3415 William Pitt Boulevard, Pittsburgh, Pa. (51). 1904. A B C D

Groat, William Avery, M. D., 105 Rugby Road, Syracuse, N. Y. (60). K

*Grondahl, Lars Olai, Ph. D., Carnegie Institute of Technology, Pittsburgh, Pa. (63). 1915. B

Gröndal, Bror L., College of Forestry, Seattle, Wash. (65). M

Groom, Wallace P., Academy of Music Building, Brooklyn, N. Y. (57). B C D I

Gross, Abraham, 420 West 116th St., New York, N. Y. (58). C

*Gross, Alfred Otto, Ph. D., Assistant Professor of Zoology, Bowdoin College, Brunswick, Me. (64). 1915. F

Gross, Cheney C., M. D., 416 Walnut St., Yankton, S. D. (58). K

Gross, Julius H., M. D., 514 Oakwood Ave., Webster Groves, Mo. (60). K

Grossart, Lewis John Henry, C. E., 423 Commonwealth Building, Allentown, Pa. (60). D

*Grossenbacher, John Gasser, Plymouth, Fla. (63). 1915. G

Grossman, Edward L., M. D., 603 J St., Sacramento, Cal. (53). **K**

*Grosvenor, Gilbert Hovey, Editor, *National Geographic Magazine*, Hubbard Memorial Hall, Washington, D. C. (48). 1906. **E H**

Groszmann, Dr. Maximilian P. E., Educational Director, National Association for the Study and Education of Exceptional Children, "Watchung Crest," Johnston Drive, Plainfield, N. J. (52). **H L**

*Grout, Abel Joel, Ph. D., 226 3d St., New Dorp, S. I., N. Y. (47). 1899. **G L**

*Grout, Frank F., University of Minnesota, Minneapolis, Minn. (60). 1911. **C**

*Grove, Charles Clayton, Ph. D., Professor of Mathematics, Columbia University, New York, N. Y. (58). 1909. **A**

Grove, John Michael, 916 Swede St., Norristown, Pa. (63). **C F**

*Grover, Frederick Orville, Professor of Botany, Oberlin College, Oberlin, Ohio. (50). 1906. **G**

Groves, Ernest R., Professor of Psychology and Sociology, New Hampshire College of A. and M. Arts, Durham, N. H. (63). **H**

Grower, George G., E. E., 48 Cottage Ave., Ansonia, Conn. (43). **B D**

Grubb, Percy L., 417 Briggs St., Harrisburg, Pa. (63).

Grubb, W. A., care American Steel and Wire Co., San Francisco, Cal. (65).

Gruenberg, Benjamin C., Chairman, Biological Department, Commercial High School, Brooklyn, N. Y. (52). **F G L**

*Gruener, Hippolyte, Ph. D., Professor of Chemistry, Adelbert College, Cleveland, Ohio. (44). 1898. **C**

Grunauer, Bernhard P., 11425 Glenwood Ave., Cleveland, Ohio. (63).

Grundel, J. G., Oakdale, Cal. (65).

*Grunsky, Carl Ewald, C. E., 57 Post St., San Francisco, Cal. (65). 1915. **D**

Gucker, Frank T., 3420 Hamilton St., Philadelphia, Pa. (54). **D**

*Gudeman, Edward, Ph. D., 903 Postal Telegraph Building, Chicago, Ill. (57). 1909. **C D K**

*Gudger, Eugene Willis, Ph. D., Professor of Biology, State Normal and Industrial College, Greensboro, N. C. (60). 1913. **F**

Güell, Aurelio R., San Jose, Costa Rica, C. A. (63). **C F G**

*Guenther, August Ernest, Ph. D., University of Nebraska College of Medicine, Omaha, Nebr. (57). 1909. **K**

GUGGENHEIM, WILLIAM, 500 Fifth Ave., New York, N. Y. (57). **D**

Guiher, Horace B., M. D., Smithfield, Pa. (60). **K**

Guild, Frank N., Professor of Chemistry and Mineralogy, University of Arizona, Tucson, Ariz. (66). **C E**

Guinzburg, Richard A., 31 West 87th St., New York, N. Y. (57). **I**

Guiteras, Ramon, M. D., 80 Madison Ave., New York, N. Y. (62). **K**

*Gulick, Addison, Ph. D., University of Missouri, Columbia, Mo. (58). 1913. **F K**

*Gulick, Luther Halsey, M. D., Director, Department of Child Hygiene, Russell Sage Foundation, New York, N. Y. (52). 1909. **K L**

*Gulliver, Frederic Putnam, Ph. D., 4843 Walton Ave., Philadelphia, Pa. (40). 1900. E L

*Gummere, Henry Volkmar, Professor of Mathematics, Drexel Institute, Philadelphia, Pa. (51). 1906. A B

Gundrum, F. F., 1021 10th St., Sacramento, Cal. (66).

Gundry, Lewis H., M. D., Relay Station, Md. (60). K

*Gunn, Selskar Michael, Associate Professor of Sanitary Biology and Public Health, Massachusetts Institute of Technology, Boston, Mass. (58). 1914. I K

*Gunther, Charles Otto, M. E., Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J. (57). 1909. A B D L

Gunthorp, Prof. Horace, 1902 Rhode Island St., Lawrence, Kans. (61). F

Gurd, Fraser Baillie, M. D., 406 Mackay St., Montreal, Canada. (63). K

*Gurley, William F. E., 6151 University Ave., Chicago, Ill. (62). 1913. E

Gurney, C. H., M. D., 4603 Avenue N., Chattanooga, Tenn. (60). K

Gurney, Lawrence Emery, Ph. D., Assistant Professor of Physics, University of the Philippines, Manila, P. I. (58). B

*Güssow, Hans Theodor, F. R. M. S., Dominion Botanist, Central Experiment Farm, Ottawa, Canada. (60). 1911. G

*Guthe, Karl Eugen, Ph. D., Professor of Physics, University of Michigan, Ann Arbor, Mich. (45). 1897. B

*Guthrie, Charles Claude, M. D., Ph. D., Professor of Physiology, University of Pittsburgh, Pittsburgh, Pa. (58). 1909. K

*Guthrie, David Vance, Ph. D., Head, Department of Physics, Louisiana State University, Baton Rouge, La. (60). 1911. B

Guthrie, Rev. Donald, 808 Park Ave., Baltimore, Md. (60). K

Guthrie, John D., U. S. Forest Service, Flagstaff, Ariz. (66). M

Guthrie, Joseph Edward, Assistant Professor of Zoology, Iowa State College, Ames, Iowa. (52). F

Guthrie, William Alvis, M. D., Southern Kentucky Sanatorium, Franklin, Ky. (51). K

*Guttmann, Leo Frank, Ph. D., Assistant Professor of Chemistry, Queen's University, Kingston, Ontario, Canada. (58). 1910. C

*Guyer, Michael Frederic, Ph. D., Professor of Zoology, University of Wisconsin, Madison, Wis. (52). 1905. F K

Hachtel, F.W., M. D., 122 West Lafayette Ave., Baltimore, Md. (60). K

Hackett, William H., E. M., 607 North Pearl St., Joplin, Mo. (58). D

Hackmeier, William J., 3840 21st St., San Francisco, Cal. (65).

Hadley, Artemus N., P. O. Box 313, Indianapolis, Ind. (51). D

*Hadley, Philip B., Ph. D., Chief, Division of Biology, Rhode Island Agricultural Experiment Station, Kingston, R. I. (58). 1910. F

*Hadley, Stephen Marshall, Ph. D., Professor of Mathematics and Astronomy, Penn College, Oskaloosa, Iowa. (54). 1906. A

Haecker, Theophilus L., Professor of Dairy Husbandry, University of Minnesota, Minneapolis, Minn. (58). M

*Haeseler, P. C., Havemeyer Laboratory, Columbia University, New York, N. Y. (63). 1915. C

Hagadorn, Francis T., 1909 Wallace Ave., Bronx, New York, N. Y. (63).

*Hagar, Stansbury, 48 Wall St., New York, N. Y. (43). 1899. H

*Hagenow, Charles F., 120 East 44th St., Chicago, Ill. (58). 1911. A B

Hager, Daniel S., M. D., 3653 No. Crawford Ave., Irving Station, Chicago, Ill. (58). H K

*Haggerty, Melvin E., Ph. D., Associate Professor of Psychology, Indiana University, Bloomington, Ind. (62). 1914. H

*Hague, Arnold, Sc. D., LL. D., U. S. Geological Survey, Washington, D. C. (26). 1879. E

HAGUE, WILLIAM, E. M., 22 William St., New York, N. Y. (57). D E

Hagy, Claude B., Department of Physics and Chemistry, Central High School, Philadelphia, Pa. (57). B C

*Hahn, Clarence Wilson, 567 West 186th St., New York, N. Y. (57). 1913. F K L

Hailman. James D., C. E., 310 South Lang Ave., Pittsburgh, Pa. (51). B D H

Hailmann. W. N., 413 Arroyo Drive, Pasadena, Cal. (61). H L

Haimbach, Frank, 150 Sumac St., Wissahickon, Philadelphia, Pa. (58). F

Haines, George Clark, Durand, Ill. (58). F G

*Haines, Thomas Harvey, Ph. D., 1194 Oak St., Columbus, Ohio. (52). 1905. H K L

*Haines, Walter Stanley, M. D., Rush Medical College, Chicago, Ill. (58). 1911. C

*Halberstadt, Baird, Pottsville, Pa. (60). 1911. E

*Hale, Albert Cable, Ph. D., 487 Halsey St., Brooklyn, N. Y. (29). 1886. B C

Hale. Clarence Frederick, 217 Mitchell St., Ithaca, N. Y. (60). C

*Hale, George Ellery, Sc. D., LL. D., Director, Mt. Wilson Solar Observatory, Pasadena, Cal. (37). 1891. A B

Hale, Henry Warren Kilburn, 608 Perry Building, Philadelphia, Pa. (54). A B D

*Hale, William Henry, Ph. D., Superintendent, Public Baths, 40 First Place, Brooklyn, N. Y. (19). 1874. A B C E F H I

*Hale, William J., Ph. D., Department of Chemistry, University of Michigan, Ann Arbor, Mich. (54). 1910. C

Haley, Frank L., Professor of Physiological Chemistry, University of Alabama, Mobile, Ala. (65). K

*Hall, Arthur Graham, Ph. D., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (60). 1910. A

*Hall, Asaph, Ph. D., U. S. Naval Observatory, Washington, D. C. (38). 1890. A

*Hall. Charles Martin, LL. D., Vice-President, Aluminum Co. of America, Niagara Falls, N. Y. (50). 1904. C

*Hall, Edwin Herbert, Ph. D., LL. D., Rumford Professor of Physics, Harvard University, Cambridge, Mass. (29). 1881. B

*Hall, Elmer Edgar, Ph. D., Associate Professor of Physics, University of California, Berkeley, Cal. (58). 1910. B

Hall, Frederick James, E. E., 4 Benedict Ave., Tarrytown, N. Y. (58). D E

Hall, Gaylord C., 622 West 137th St., New York, N. Y. (57). D

Hall, H. Porter, M. D., Leominster, Mass. (60). K

*Hall, Harvey Monroe, Ph. D., Assistant Professor of Economic Botany, College of Agriculture, Berkeley, Cal. (64). 1915. G

Hall, Ivan C., Assistant Professor of Bacteriology, University of California, Berkeley, Cal. (65). F K

*Hall, John Galentine, Professor of Plant Pathology, State College of Washington, Pullman, Wash. (62). 1913. G

*Hall, John W., University of Cincinnati, Cincinnati, Ohio. (61). 1915. L

Hall, Joseph Underwood, M. D., 216 Autumn St., San José, Cal. (51). K

Hall, Louis Wells, C. E., 1032 Crescent Ave., Birmingham, Ala. (60). D

*Hall, Lyman Beecher, Ph. D., Haverford College, Haverford, Pa. (31). 1884. C

Hall, Robert A., University of Minnesota, Minneapolis, Minn. (63). C K

*Hall, Robert William, Ph. D., Professor of Biology, Lehigh University, South Bethlehem, Pa. (50). 1905. F

*Hall, Roy D., Ph. D., 35 Franklin Ave., West Orange, N. J. (58). 1911. C

Hall, Sherrell W., 2728 Channing Way, Berkeley, Cal. (65).

Hall, Sidney Storrs, M. D., 424 Woodside Ave., Ripon, Wis. (60). K

Hall, T. Proctor, Ph. D., M. D., 1301 Davie St., Vancouver, Canada. (66). B

*Hall, Thomas Cuming, D. D., Professor of Christian Ethics, Union Theological Seminary, New York, N. Y. (54). 1906. I

*Hall, William Bonnell, M. D., Fremont St., Selma, Ala. (51). 1909. K

*Hall, William Shafer, Professor of Mining and Graphics, Lafayette College, Easton, Pa. (50). 1906. A D

*Hall, William Thomas, Department of Chemistry, Massachusetts Institute of Technology, Boston, Mass. (57). 1910. C

Hall, William T., M. D., 730 5th Ave., New Kensington, Pa. (60). K

*Hall, Winfield Scott, M. D., Ph. D., Professor of Physiology, Northwestern University Medical School, Chicago, Ill. (52). 1907. H K L

*Hallock, Albert P., Ph. D., 1253 St. Nicholas Ave., New York, N. Y. (31). 1896. C

Hallock, Frank Kirkwood, M. D., Cromwell Hall, Cromwell, Conn. (50). H K

Halsey, Robert Hurtin, M. D., 158 West 58th St., New York, N. Y. (56). K

*Halstead, Ernest W., Ocean Springs, Miss. (54). 1911. E F G

Halsted, Arthur, E. E., 60 Wall St., New York, N. Y. (60). D

*Halsted, Byron David, Sc. D., Professor of Botany and Horticulture, Rutgers College, New Brunswick, N. J. (29). 1883. G

*Halsted, George Bruce, Ph. D., Professor of Mathematics, State Teacher's College, Greeley, Colo. (43). 1896. A

*Halsted, William Stewart, M. D., Sc. D., LL. D., Professor of Surgery, Johns Hopkins University, Baltimore, Md. (50). 1903. I K L

*Hamaker, John Irvin, Ph. D., Professor of Biology, Randolph-Macon Woman's College, College Park, Va. (50). 1901. F

*Hamann, Carl August, M. D., Professor of Anatomy, Western Reserve University Medical College, Cleveland, Ohio. (58). 1911. K

Hambleton, James Chase, Galloway, Ohio. (58). F

Hamburger, Louis P., M. D., 1207 Eutaw Place, Baltimore, Md. (60). K

*HAMERSCHLAG, ARTHUR ARTON, Sc. D., LL. D., Director, Carnegie Institute of Technology, Pittsburgh, Pa. (57). 1912. D

*Hamilton, Francis Marion, Ph. D., New York Training School for Teachers, New York, N. Y. (58). 1911. H L

Hamilton, George A., E. E., 532 Morris Ave., Elizabeth, N. J. (60). D

Hamilton, Gilbert V., M. D., Santa Barbara, Cal. (66). H K

Hamilton, Walter M., U. S. Naval Observatory, Washington, D. C. (63). A

Hamilton, Walter R., E. M., 433 California St., San Francisco, Cal. (60). D

Hamlin, George Herbert, C. E., Orono, Me. (60). D

Hamlin, Wilber Grafton, M. D., 163 State St., Chicago, Ill. (58). K

*Hamman, Louis, M. D., 714 Park Ave., Baltimore, Md. (60). 1914. K

*Hammer, William Joseph, E. E., 153 West 46th St., New York, N. Y. (52). 1906. B D

Hammond, George T., C. E., 156 Berkeley Place, Brooklyn, N. Y. (60). D

Hammond, Howard Spurr, Department of Botany, Oregon State Agricultural College, Corvallis, Oregon. (58). G

*Hammond, John Hays, LL. D., 71 Broadway, New York, N. Y. (50). 1901. D E I L

HAMMOND, MRS. JOHN HAYS, 320 Madison Ave., Lakewood, N. J. (50). H

Hamner, Nicholas C., 1916 Commerce St., Dallas, Tex. (60). C

*HANAMAN, CHARLES EDWARD, Troy, N. Y. (19). 1883. F

Hanawalt, Francis W., 826 North Steele St., Tacoma, Wash. (66).

Hance, Anthony M., 2217 DeLancey Place, Philadelphia, Pa. (51). C D G

Hance, Robert Theodore, University of Pennsylvania, Philadelphia, Pa. (64). F

Hancock, H. Irving, Ferguson-Hancock Laboratories, Blue Point, L. I., N. Y. (56). C K

*Hancock, Harris, Sc. D., Ph. D., Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. (54). 1906. A

Hancock, James Cole, M. D., 2 Rector St., New York, N. Y. (51). K

Hancock, William James, care Rev. Elliston Perot, Montrose, Pa. (60). L

Hancock, William Jerome, Hollis Court, Queens, N. Y. (58). C

Hanger, G. Wallace W., Ph. D., 925 Southern Building, Washington, D. C. (54). H I L

Hankinson, Thomas Leroy, Assistant in Biology, State Normal School, Charleston, Ill. (53). **F L**

Hanna, G. Dallas, U. S. Bureau of Fisheries, Washington, D. C. (62). **F**

Hanna, L. C., Perry-Payne Building, Cleveland, Ohio. (63).

*Hanna, Ulysses Sherman, Ph. D., Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1909. **A**

Hannay, William M., 207 I St., N. W., Washington, D. C. (62).

Hannibal, Harold, P. O. Box 21, Stanford University, Cal. (65).

Hanscom, W. W., 848 Clayton St., San Francisco, Cal. (65).

Hansen, Rev. James, St. John's University, Collegeville, Minn. (58). **F G**

*Hansen, Niels Ebbesen, Professor of Horticulture, South Dakota State College of Agriculture and Mechanic Arts, Brookings, S. D. (58). 1911. **G**

Hanson, Rev. F. V., 556 East 2nd St., Jamestown, N. Y. (61). **G**

Hanson. Hans Olaf, Bayshore Terrace, East Elmhurst, L. I., N. Y. (56).

*Hanson, Herman H., Associate Professor of Chemistry, Maine Agricultural Experiment Station, Orono, Me. (58). 1911. **C**

*Hanus, Paul Henry, LL. D., Professor of Education, Harvard University, Cambridge, Mass. (60). 1910. **L**

Hapeman, Harry, M. D., Minden, Nebraska. (51). **G K**

*Hard, Herbert A., North Dakota Agricultural College, Agricultural College, N. D. (64). 1915. **E**

Hardenbergh, Henry, Horse Head Inn, Palmerton, Pa. (58). **C**

*Harder, Edmund Cecil, U. S. Geological Survey, Washington, D. C. (60). 1911. **E**

Harder, Oscar E., University of Illinois, Urbana, Ill. (63).

*Hardesty, Irving, Ph. D., Professor of Anatomy, Tulane University, New Orleans, La. (63). 1915. **K**

*Harding, Everhart Percy, Ph. D., Assistant Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (50). 1901. **C**

*Harding, Harry Alexis, Ph. D., College of Agriculture, University of Illinois, Urbana, Ill. (48). 1906. **G K**

*Harding, Newton H., 110 North Pine Ave., Chicago, Ill. (63). 1913. **H**

Hardy, Edward R., 419 West 118th St., New York, N. Y. (60).

Hare, William, 59 John St., New York, N. Y. (65).

*Hargitt, Charles Wesley, Ph. D., Professor of Zoology, Syracuse University, Syracuse, N. Y. (38). 1891. **F K L**

*Hargitt, George Thomas, Ph. D., Syracuse University, Syracuse, N. Y. (58). 1911. **F**

Hargrove, Julian Otho, 1603 O St. N. W., Washington, D. C. (58). **C D E**

Haring, Clarence Melvin, D. V. M., 2801 Russell St., Berkeley, Cal. (65). **K**

*Harkins, William Draper, Ph. D., Associate Professor of Chemistry, University of Chicago, Chicago, Ill. (60). 1911. **C**

Harley, Harrison Le Roy, 521 North College Ave., State College, Pa. (65). **H L**

Harlow, William Page, M. D., Boulder, Colo. (60). **K**

*Harman, Mary Theresa, Ph. D., Kansas State Agricultural College, Manhattan, Kansas. (60). 1915. F

Harmon, Charles Sumner, 1st National Bank Building, Chicago, Ill. (60).

Harmon, Herbert W., 418 Poplar St., Grove City, Pa. (52). B

Harmon, Judson B., E. E., 729 Diamond Ave., Woodhaven, Long Island, N. Y. (60). D

Harned, Robey Wentworth, Professor of Zoology and Entomology, Mississippi A. and M. College, Agricultural College, Miss. (58). F

Harney, George W., Marysville, Cal. (65).

Harnly, Henry Jacob, Ph. D., Professor of Biology, McPherson College, McPherson, Kans. (50). F G

*Harper, Eugene Howard, Ph. D., R. D. 2, Bedford City, Va. (60). 1911. K

*Harper, Henry Winston, M. D., LL. D., Professor of Chemistry, University of Texas, Austin, Tex. (45). 1899. C K

Harper, Joseph Nelson, Professor of Agriculture, Clemson Agricultural College, Clemson College, S. C. (58). G

Harper, Merritt Wesley, Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (63). F

*Harper, Robert Almer, Ph. D., Professor of Botany, Columbia University, New York, N. Y. (54). 1906. G

Harper, Robert Brinton, 4534 Drexel Boulevard, Chicago, Ill. (58). C

Harper, Robert Henry, M. D., Afton, Okla. (50). F H K

*Harper, Roland McMillan, Ph. D., 555 First Ave., College Point, N. Y. (55). 1909. E G

Harpham, Edwin L., 931 Maple Ave., Evanston, Ill. (58).

*Harrington, Elmer A., Clark University, Worcester, Mass. (61). 1912. B

Harrington, George T., 1120 Virginia Ave. S. W., Washington, D. C. (62). C G

*Harris, Abram Winegardner, LL. D., President, Northwestern University, Evanston, Ill. (40). 1895. C

Harris, Downey L., M. D., City Bacteriologist, St. Louis, Mo. (64). K

Harris, Franklin Stewart, Ph. D., Professor of Agronomy, Agricultural Experiment Station, Logan, Utah. (62). G

*Harris, Gilbert Dennison, Professor of Geology, Cornell University, Ithaca, N. Y. (58). 1911. E

*Harris, Gorham W., Assistant Professor of Chemistry, Simmons College, Boston, Mass. (64). 1915. C

Harris, Mrs. Henrietta C., 1104 Worthington St., Springfield, Mass. (65).

*Harris, J. Campbell, 119 South 16th St., Philadelphia, Pa. (50). 1907. F

*Harris, James Arthur, Ph. D., Station for Experimental Evolution, Cold Spring Harbor, L. I., N. Y. (52). 1907. F G

Harris, M. L., Roosevelt, Utah. (66).

Harris, N. W., care Harris Trust and Savings Bank, 117 Monroe St., Chicago, Ill. (58).

*Harris, Norman MacLeod, Assistant Professor of Bacteriology, University of Chicago, Chicago, Ill. (54). 1906. K

Harris, Robert Wayne, M. D., 621 Vincennes St., New Albany, Ind. (51). **K**

*Harris, Rollin Arthur, Ph. D., U. S. Coast and Geodetic Survey, Washington, D. C. (47). 1899. **A B**

*Harris, Uriah Rose, Rear-Admiral, U. S. N., The Brighton, 2123 California St., Washington, D. C. (34). 1886. **A**

Harris, William Denny, 3611 Sansom St., Philadelphia, Pa. (54). **B C D**

Harrison, Bruce Magill, Department of Zoology, Iowa State College, Ames, Iowa. (62). **F**

Harrison, Frank S., Halltown, W. Va. (64). **D**

*Harrison, John Burchmore, Director, Government Laboratory, Georgetown, British Guiana. (58). 1910. **C E**

Harrison, John Green, D. D., Professor of Philosophy and Education, Mercer University, Macon, Ga. (62). **H L**

*Harrison, Ross Granville, M. D., Ph. D., Professor of Comparative Anatomy, Yale University, New Haven, Conn. (54). 1906. **F K**

Harrold, Charles C., M. D., 416½ Second St., Macon, Ga. (60). **K**

Harsh, S. A., P. O. Box 910, Denver, Colo. (60). **C**

*Harshberger, John William, Ph. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **G**

*Hart, Charles Arthur, University of Illinois, Urbana, Ill. (51). 1906. **E F**

*Hart, Edward, Ph. D., Professor of Chemistry, Lafayette College, Easton, Pa. (33). 1885. **C**

*Hart, Edwin Bret, Ph. D., Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (58). 1910. **C K**

Hart, Francis Russell, 17 Court St., Boston, Mass. (64). **D**

Hart, George H., 149 East 39th St., New York, N. Y. (58).

*Hart, James Norris, Sc. D., Professor of Mathematics and Astronomy, University of Maine, Orono, Me. (51). 1906. **A L**

Hart, Joseph K., University of Washington, Seattle, Wash. (66).

Hart, Rev. Samuel, D. D., LL. D., Dean, Berkeley Divinity School, Middletown, Conn. (22). **A**

Hart, Prof. W. R., Amherst, Mass. (61). **L**

Harte, Richard Hickman, M. D., Adjunct Professor of Surgery, University of Pennsylvania, Philadelphia, Pa. (65). **K**

Harter, George A., Ph. D., Professor of Mathematics and Physics, Delaware College, Newark, Del. (66). **A B**

*Harter, Leonard Lee, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

*Hartley, Carl, U. S. Department of Agriculture, Washington, D. C. (57). 1913. **G**

*Hartley, Charles P., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (51). 1911. **G**

Hartley, Frank, Principal, Allegany County Academy, Cumberland, Md. (51). **E G**

Hartline, Daniel S., State Normal School, Bloomsburg, Pa. (54). **F G**

Hartman, Carl, 3008 Washington Square, Austin, Texas. (64).
Hartman, Frank Alexander, 9 Youle St., Melrose, Mass. (62). **F**
*Hartman, Leon Wilson, Ph. D., Professor of Physics, College of Agriculture, Reno, Nevada. (58). 1910. **B**
Hartmann, Francis M., Professor of Physics, Cooper Union, New York, N. Y. (56). **B D**
Hartmann-Kempf, Robert E., Ph. D., care Hartmann & Braun, Frankfurt-am-Main, Germany. (54). **B D**
*Hartnagle, Chris. A., State Museum, Albany, N. Y. (61). 1911. **E**
*Hartness, James, President, Jones & Lamson Machine Co., Springfield, Vt. (51). 1911. **A D**
Hartshorne, Edward Y., Haverford, Pa. (65).
*Hartwell, Burt Laws, Ph. D., Professor of Agricultural Chemistry, Agricultural Experiment Station, Kingston, R. I. (55). 1911. **C G**
*Hartwell, George Wilber, Ph. D., Professor of Mathematics, Hamline University, St. Paul, Minn. (58). 1911. **A**
*Hartwell, John Augustus, M. D., 27 East 63d St., New York, N. Y. (57). 1908. **K**
Hartz, J. D. Aug., 1147 3d Ave., College Point, N. Y. (43). **C E G**
Hartzell, Frederick Z., Chautauqua Experiment Vineyard, Fredonia, N. Y. (58). **F G**
*Hartzell, Joseph Culver, Ph. D., Blue Ash, Ohio. (49). 1911. **C E K**
Hartzell, Mabel A., Sinton, Tex. (58). **C**
*Harvey, Basil C. H., M. D., Associate Professor of Anatomy, University of Chicago, Chicago, Ill. (58). 1911. **F K**
Harvey, E. Newton, Guyot Hall, Princeton University, Princeton, N. J. (58). **K**
*Harvey, Edward M., Watsonville, Cal. (63). 1915. **G**
Harvey, Frederic A., 105 Judson St., Syracuse, N. Y. (63).
*Harvey, LeRoy Harris, Ph. D., State Normal School, Kalamazoo, Mich. (54). 1911. **G**
Harvey, Nathan Albert, Ph. D., 1029 Ellis St., Ypsilanti, Mich. (52). **L**
Harvey, R. W., Department of Anatomy, University of California, Berkeley, Cal. (65). **K**
Harvey, Ruth Sawyer, Ph. D., 1702 Master St., Philadelphia, Pa. (60). **E**
Harvey, Samuel Clark, M. D., Loomis Sanitorium, Loomis, N. Y. (64). **K**
Harvey, William Stooker, President, National Board of Trade, 100 Broadway, New York, N. Y. (47).
Haseman, Charles, Ph. D., Professor of Mathematics and Mechanics, University of Nevada, Reno, Nev. (58). **A B D**
Haseman, Leonard, Ph. D., Assistant Professor of Entomology, College of Agriculture, Columbia, Mo. (60). **F**
Haserot, Samuel F., 1972 Ford Drive, Cleveland, Ohio. (63).
Haskell, Eugene Elwin, Director, College of Civil Engineering, Cornell University, Ithaca, N. Y. (39). 1896. **A B D**
*Haskell, Mellen Woodman, Ph. D., Professor of Mathematics, University of California, Berkeley, Cal. (54). 1906. **A L**

*Haskins, Charles Nelson, Ph. D., Assistant Professor of Mathematics, Dartmouth College, Hanover, N. H. (60). 1910. A

Haskins, Henri D., Professor of Chemistry, Massachusetts Agricultural Experiment Station, Amherst, Mass. (60). C

Haskins, Myrtilla M., Scott High School, Toledo, Ohio. (64).

*Hasselbring, Heinrich, Ph. D., U. S. Department of Agriculture, Washington, D. C. (61). 1911. G

Hasslacher, Jacob, 100 William St., New York, N. Y. (50). C

*HASTINGS, CHARLES SHELDON, Ph. D., Professor of Physics, Sheffield Scientific School, Yale University, New Haven, Conn. (25). 1878. B

*Hastings, Edwin George, Associate Professor of Bacteriology, University of Wisconsin, Madison, Wis. (50). 1910. C K

Hastings, Hudson Bridge, Professor of Mechanical Drawing and Surveying, Reed College, Portland, Ore. (63). D

*Hastings, Thomas Wood, M. D., 172 East 71st St., New York, N. Y. (57). 1909. K L

*Hastings, William Walter, Ph. D., Normal School of Physical Education, Battle Creek, Mich. (54). 1913. H K

*Hatai, Shinkishi, Ph. D., Wistar Institute of Anatomy, Philadelphia, Pa. (62). 1911. K

*Hatcher, Robert Anthony, M. D., 414 East 26th St., New York, N. Y. (62). 1911. K

Hately, John C., Chicago Beach Hotel, Chicago, Ill. (58).

*Hathaway, Arthur Stafford, Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1908. A B C D

*Hatt, William Kendrick, Ph. D., Professor of Civil Engineering, Purdue University, La Fayette, Ind. (57). 1911. D

Haughwout, Frank G., 316 West 79th St., New York, N. Y. (63). F

Haupt, Louis, M. D., 232 East 19th St., New York, N. Y. (60). K

Havens, Verne LeRoy, C. E., 4a Puente de Alvarado No. 92, Mexico, D. F., Mexico. (60). D

Hawes, Joseph H., 74 Bernard St., Dorchester Center, Mass. (58). B D

*Hawk, Philip Bovier, Ph. D., Professor of Chemistry, Jefferson Medical College, Philadelphia, Pa. (58). 1910. C K

Hawke, Anne Shoemaker, Rose Valley, Moylan, Pa. (65).

Hawkes, Forbes, M. D., 124 East 65th St., New York, N. Y. (60). K

*Hawkesworth, Rev. Alan Spencer, R. S. A., Sheridanville, Pittsburgh, Pa. (58). 1911. A

Hawkins, Alfred Cary, Brown University, Providence, R. I. (64).

Hawkins, C. A., 519 Merchants National Bank Building, San Francisco, Cal. (66).

Hawkins, Layton S., 1082 Madison Ave., Albany, N. Y. (57). G L

*Hawkins, Lon A., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1913. G

*Haworth, Erasmus, Ph. D., Professor of Geology, University of Kansas, Lawrence, Kans. (58). 1910. E

Hawxhurst, Robert, Jr., C. E., General Manager, Poderosa Mining Co., Antofagasta, Chile, S. A. (53). **D**

Hay, Clarence L., 800 16th St., Washington, D. C. (64).

*Hay, Oliver Perry, Ph. D., 1211 Harvard St. N. W., Washington, D. C. (49). 1901. **E F**

*Hay, William Perry, Professor of Biology, McKinley High School, Washington, D. C. (49). 1907. **F**

Hayden, Ada, Department of Botany, Iowa State College, Ames, Iowa. (62). **G**

Hayden, Horace Edwin, Jr., Assistant Professor of Biology, A. and M. College of Texas, College Station, Texas. (58). **F G**

Hayden, William B., Catskill, N. Y. (57).

*Hayes, Charles Willard, Ph. D., LL. D., 47 Parliament St., Westminster, London, England. (51). 1905. **E**

*Hayes, Ellen, Professor of Astronomy, Wellesley College, Wellesley, Mass. (52). 1905. **A**

Hayes, George Samuel, C. E., 1123 Broadway, New York, N. Y. (60). **D**

*Hayes, Herbert Kendall, University Farm, St. Paul, Minn. (61). 1911. **G**

Hayes, Joseph Wanton, Ph. D., Faculty Exchange, University of Chicago, Chicago, Ill. (64).

Hayes, Martin L., Professor of Agricultural Education, A. and M. College of Texas, College Station, Texas. (65). **L M**

Hayes, Mary Helen Stevens, Ph. D., Faculty Exchange, University of Chicago, Chicago, Ill. (64).

*Hayford, John Fillmore, C. E., Director, College of Engineering, Northwestern University, Evanston, Ill. (46). 1898. **A B D**

*Hayhurst, Paul, Professor of Entomology, University of Arkansas, Fayetteville, Ark. (58). 1914. **F**

*Haynes, Eli Stuart, Ph. D., 948 Montgomery Park, Beloit, Wis. (60). 1913. **A**

Haynes, Miss Julia Anna, State Normal School, Hyannis, Mass. (47). **F G K**

Haynes, Winthrop Perrin, 74 Beacon St., Hyde Park, Mass. (60).

Hays, B. Frank, 431 Riverside Drive, New York, N. Y. (49).

Hays, John Coffee, E. E., Visalia, Cal. (58). **D**

Hays, William Henry, Tracyton, Wash. (58). **A**

*Haythorn, Samuel Reese, M. D., Allegheny General Hospital, Pittsburgh, Pa. (64). 1915. **K**

Hayward, Robert Francis, C. E., Western Canada Power Co., Ltd., Vancouver, B. C., Canada. (60). **D**

Hayward, William R., 617 Castillo St., Santa Barbara, Cal. (66). **E**

*Hazard, Daniel Lyman, U. S. Coast and Geodetic Survey, Washington, D. C. (48). 1910. **B**

Hazard, Frederic Seymour, Assistant Secretary, A. A. A. S., Smithsonian Institution, Washington, D. C. (62). **C F K**

Hazard, Frederick Rowland, President, Solvay Process Co., Syracuse, N. Y. (63). **C**

*Hazard, Hon. Rowland Gibson, Peace Dale, R. I. (50). 1906. **C**

*Hazen, Tracy Elliot, Ph. D., Professor of Botany, Barnard College, Columbia University, New York, N. Y. (50). 1902. **G**

*Headlee, Thomas J., Ph. D., Professor of Entomology, Rutgers College, New Brunswick, N. J. (52). 1913. **F**

Headley, F. B., U. S. Experiment Farm, Fallon, Nev. (65).

*Heald, Frederick DeForest, Ph. D., Professor of Plant Pathology, State College of Washington, Pullman, Wash. (50). 1904. **G**

Heaps, William James, 310 West Hoffman St., Baltimore, Md. (60). **C**

Hearne, Robert Joseph, M. E., 12 Wooster St., New York, N. Y. (58). **D**

Heath, Prof. Eugene Schofield, 2936 Inyo St., Fresno, Cal. (62). **F**

HEBARD, MORGAN, Chestnut Hill, Philadelphia, Pa. (63).

Hebb, Thomas Carlyle, Professor of Physics and Chemistry, Northern State Normal School, Marquette, Mich. (64). **B C**

Hebbard, Ellery Cola, M. D., 122 Huntington Ave., Boston, Mass. (51). **D K**

*Hebert, P., M. D., 313 Stephenson Ave., Iron Mountain, Mich. (60). **K**

Heck, William Harry, Ph. D., Professor of Education, University of Virginia, Charlottesville, Va. (65). 1915. **L**

Heddle, John Ronald, Public Museum, Milwaukee, Wis. (65). **F**

*Hedgcock, George Grant, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1904. **G**

Hedge, Frederic Henry, 440 Boylston St., Brookline, Mass. (28). **F H**

Hedges, Miss Florence, U. S. Department of Agriculture, Washington, D. C. (65). **G**

*Hedrick, Earle Raymond, Ph. D., Professor of Mathematics, University of Missouri, Columbia, Mo. (58). 1908. **A**

*Hedrick, Henry Benjamin, Yale University, New Haven, Conn. (40). 1896. **A**

*Hedrick, Ulysses Prentiss, Horticulturist, N. Y. Agricultural Experiment Station, Geneva, N. Y. (60). 1911. **G**

Hedrick, William A., Ph. D., Professor of Physics, McKinley Manual Training School, Washington, D. C. (60). **B C L**

Heermance, Van Ness, President, Virginia Concrete and Engineering Company, Rocky Mount, Va. (60). **C D E**

*Hegner, Robert W., Ph. D., Assistant Professor of Zoology, University of Michigan, Ann Arbor, Mich. (63). 1913. **F**

*Heidemann, Otto, Forest Glen, Md. (58.) 1913. **F**

*Heine, Aida Agnes, Associate Professor of Geology, Smith College, Northampton, Mass. (64). 1915. **E**

*Heinemann, Paul Gustav, Ph. D., Assistant in Bacteriology, University of Chicago, Chicago, Ill. (58). 1911. F

Heinze, Arthur P., Vice-President, United Copper Co., 220 Madison Ave., New York, N. Y. (57).

*Hektoen, Ludvig, M. D., Professor of Pathology, University of Chicago, Chicago, Ill. (52). 1906. K

Heldt, Thomas Johannes, 200 E. Lanvale St., Baltimore, Md. (66). F K

Helland, John W., M. D., Maynard, Minn. (60). K

Helmer, Mrs. Adell Gill, 11 Arthur St., Atlanta, Ga. (63).

Hemenway, Ansel F., Ph. D., Professor of Biology, Transylvania University, Lexington, Ky. (63). F

Hemenway, Miss Clara, 242 Beacon St., Boston, Mass. (61).

Hemingway, Frank, 6 East Union Ave., Bound Brook, N. J. (60). C

*Hemmeter, John Cohn, M. D., Ph. D., LL. D., 739 University Parkway, Roland Park, Baltimore, Md. (51). 1906. K L

Hemstreet, George P., M. E., Hastings upon Hudson, N. Y. (66). D

*Henchman, Miss Annie Parker, P. O. Box 34, Jaffrey, N. H. (54). 1906. F

Henderson, C. Hanford, Ph. D., Samarcand, N. C. (61). E I L

Henderson, George Dallas, M. D., 276 Maple St., Holyoke, Mass. (60). K

Henderson, John Brooks, Jr., 16th St. above Florida Ave., Washington, D. C. (60).

*Henderson, Prof. Junius, Curator of the Museum, University of Colorado, Boulder, Colo. (50). 1906. E F

*Henderson, Lawrence Joseph, M. D., Professor of Biological Chemistry, Harvard University, Cambridge, Mass. (62). 1914. C F

Henderson, Lena Bondurant, University of Tennessee, Knoxville, Tenn. (65). G

*Henderson, Velyien Ewart, M. D., Associate Professor of Pharmacy and Pharmacology, University of Toronto, Toronto, Canada. (60). 1911. K

*Henderson, William Edwards, Ph. D., Associate Professor of Chemistry, Ohio State University, Columbus, Ohio. (50). 1901. C

*Henderson, Yandell, Ph. D., Professor of Physiology, Yale University Medical School, New Haven, Conn. (57). 1908. K

Hendren, Linville L., Ph. D., Professor of Physics, University of Georgia, Athens, Ga. (63). B

Hendrick, A. W., President, University of Nevada, Reno, Nevada. (66). L

Hendrick, Ellwood, 139 East 40th St., New York, N. Y. (57). C

Henius, Max, Ph. D., 1135 Fullerton Ave., Chicago, Ill. (52). C L

*Henmon, Vivian A. C., Ph. D., Professor of Education, University of Wisconsin, Madison, Wis. (54). 1906. H L

Henn, Arthur W., 821 Atwater Avenue, Bloomington, Ind. (66). F

Hennen, Ray Vernon, C. E., West Virginia Geological Survey, Morgantown, W. Va. (50). D E

*Henrich, Carl, E. M., Metasville, Ga. (50). 1911. A E I

*Henricksen, Henrick Christian, Stanfordville, N.Y. (60). 1911. C F G
Henriques, Henry A., M. D., 170 South St., Morristown, N. J. (60). K
*Henry, Prof. Alfred Judson, 1322 Columbia Road, Washington, D. C. (49). 1901. A B
Henry, Charles C., M. D., 56 Clark St., Brooklyn, N. Y. (43). K
*Henry, David H., Associate Professor of Chemistry, Clemson Agricultural College, Clemson College, S. C. (65). 1915. C
Henry, Philip S., 1402 Massachusetts Ave., Washington, D. C. (64).
*Henshaw, Henry Wetherbee, Chief, Biological Survey, U. S. Department of Agriculture, Washington, D. C. (55). 1914. F H
Henslin, Aaron E., M. D., Le Roy, Minn. (60). K
Herb, Arthur, M. E., 1459 St. James Court, Louisville, Ky. (58). D
*Hering, Carl, M. E., Sc. D., 929 Chestnut St., Philadelphia, Pa. (62). 1915. D
*Hering, Daniel Webster, Ph. D., LL. D., Professor of Physics and Applied Mechanics, New York University, New York, N. Y. (50). 1906. B D
*Hering, Rudolf, C. E., 170 Broadway, New York, N. Y. (33). 1885. D E I
Hermann, Adam, American Museum of Natural History, New York, N. Y. (63). F
Herms, Edward, 689 Bedford Ave., Columbus, Ohio. (58). C
*Herms, William Brodbeck, Assistant Professor of Entomology, University of California, Berkeley, Cal. (57). 1913. F
Herr, Hiero B., C. E., M. E., 4216 Ellis Ave., Chicago, Ill. (50). D E
*Herrick, Charles Judson, Ph. D., Department of Anatomy, University of Chicago, Chicago, Ill. (49). 1901. F
Herrick, Cheesman Abiah, Ph. D., President, Girard College, Philadelphia, Pa. (66). L
*Herrick, Francis Hobart, Sc. D., Ph. D., Professor of Biology, Adelbert College, Cleveland, Ohio. (52). 1905. F
*Herrick, Glenn Washington, Professor of Economic Entomology, Cornell University, Ithaca, N. Y. (50). 1913. F
*Herrick, Joseph Cawdell, Ph. D., Professor of Biology, St. Joseph's Seminary, Yonkers, N. Y. (56). 1911. H K
Herrington, John Cornelius, M. D., Asylum, Miss. (65). K
*Herrmann, Richard, 2419 Couler Ave., Dubuque, Iowa. (50). 1902. E F H
*Hersam, Ernest Albion, Associate Professor of Metallurgy, University of California, Berkeley, Cal. (60). 1915. D
Hersey, Henry B., U. S. Weather Bureau, Milwaukee, Wis. (62). A B
*Hershey, Oscar H., Kellogg, Idaho. (65). 1915. E
Hershey, Prof. J. Willard, Defiance College, Defiance, Ohio. (65).
*Herty, Charles Holmes, Ph. D., Professor of Chemistry, University of North Carolina, Chapel Hill, N. C. (42). 1895. C
*Hertzler, Arthur Emanuel, M. D., Ph. D., 1004 Rialto Building, Kansas City, Mo. (58). 1911. K

Hertzog, P. H., Peddie Institute, Hightstown, N. J. (57). **F**

*Hervey, Rev. Alpheus Baker, Ph. D., Bath, Me. (22). 1879. **A G**

Herzig, Charles S., E. M., 1 London Wall Buildings, London, E. C., England. (60). **D**

Herzog, Felix Benedict, Ph. D., President, Herzog Teleseme Co., 137 West 23d St., New York, N. Y. (50). **D**

*Herzog, Maximilian, M. D., Suite 1604, Mallers Building, Chicago, Ill. (58). 1909. **H K**

Herzstein, Morris, M. D., 805 Sutter St., San Francisco, Cal. (52). **K**

Hess, Emory Le Roy, 4800 West Chicago Ave., Chicago, Ill. (60).

Hess, Frederick Andrew, M. D., Ph. D., 526 West Division St., Chicago, Ill. (58). **K**

Hess, Frederick Edward, care Hess and Skinner Engineering Co., Dallas, Texas. (64). **D**

Hess, Henry W., The Libbey Glass Co., Toledo, Ohio. (60). **C**

Hess, Selmar, Publisher, 151 West 19th St., New York, N. Y. (53). **I K L**

*Hesse, Bernhard Conrad, Ph. D., 90 William St., New York, N. Y. (60). 1910. **C**

Hessenmueller, E. L., 1625 West 25th St., Cleveland, Ohio. (65).

*Hessler, John Charles, Ph. D., 1130 West North St., Decatur, Ill. (58). 1910. **C**

*Hessler, Robert, M. D., Logansport, Ind. (54). 1909. **G H K**

Heuel, Emil, M. D., 151 West 87th St., New York, N. Y. (60). **K**

*Heuer, George Julius, M. D., Johns Hopkins Hospital, Baltimore, Md. (60). 1911. **K**

Heurich, Christian, 1307 New Hampshire Ave., Washington, D. C. (62). **C**

Hewerdine, Thomas Sloan, C. E., Olivia, Minn. (58). **A B C D**

Hewett, Donnel Foster, E. M., care U. S. Geological Survey, Washington, D. C. (62). **E**

*Hewett, Edgar Lee, Director, School of American Archaeology, Santa Fe, N. M. (50). 1910. **H**

Hewins, Nellie Priscilla, Clermont Terrace, Elmhurst, L. I., N. Y. (60). **K**

*Hewitt, C. Gordon, Ph. D., Department of Agriculture, Ottawa, Canada. (60). 1913. **F**

Hewitt, Joseph H., M. D., Cleveland City Hospital, Cleveland, Ohio. (60). **K**

Hewitt, William F., M. D., Presbyterian Hospital, Chicago, Ill. (63). **K**

*Hewlett, Albion Walter, M. D., 1835 Cambridge Road, Ann Arbor, Mich. (63). 1914. **K**

*Hewson, Addinell, M. D., 2120 Spruce St., Philadelphia, Pa. (60). 1911. **K**

HEXAMER, CHARLES JOHN, C. E., LL. D., 419 Walnut St., Philadelphia, Pa. (33). **B C**

Heyer, William D., 523 South Broad St., Elizabeth, N. J. (33). **B D L**

*Heyl, Paul Renno, Ph. D., care Commercial Research Co., Tuckahoe, N. Y. (54). 1911. **B**

*Hibbard, Rufus P., Ph. D., Michigan Agricultural College, East Lansing, Mich. (54). 1911. **G K**

*Hice, Richard R., Beaver, Pa. (41). 1906. **A B C E**

Hick, L. A., M. D., Delta, Colo. (60). **K**

Hickernell, Louis Max, Syracuse University, Syracuse, N. Y. (65). **F**

Hickman, J. B., Aromas, Cal. (65).

Hicks, Edwin Francis, 4837 Fairmont Ave., Philadelphia, Pa. (58). **C**

Hicks, Leslie Robert, 14 Warwick Road, Melrose Highlands, Mass. (64). **D**

Hidershide, George N., M. D., Arcadia, Wis. (58). **K**

Higbee, George G., E. M., Murray Iron Works Co., Burlington, Iowa. (60). **D**

Higby, G. O., Ohio Wesleyan University, Delaware, Ohio. (63).

*Higdon, John E., 1111 West 47th St., Los Angeles, Cal. (54). 1906. **A B D K**

*Higgins, Prof. J. Edgar, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (57). 1911. **G**

Higgins, Lafayette, C. E., Sanitary Engineer, Iowa State Board of Health, Des Moines, Iowa. (51). **C D**

Higginson, Henry Lee, LL. D., 44 State St., Boston, Mass. (60).

Hightower, George R., President, Mississippi A. and M. College, Agricultural College, Miss. (64). **G**

Hilbert, Alfred, E. E., 631 46th St., Brooklyn, N. Y. (60). **D**

*Hildebrand, Joel Henry, Ph. D., Professor of Chemistry, University of California, Berkeley, Cal. (65). 1915. **C**

*Hildebrandt, Theophil Henry, Ph. D., 513 Elm St., Ann Arbor, Mich. (58). 1911. **A**

*Hilditch, Warren Witherell, Ph. D., Orange Memorial Hospital, 224 Essex Ave., Orange, N. J. 1911. **C**

Hileman, Allen Irving, R. F. D. 2, Paxton, Ill. (61). **G L**

*Hilgard, Eugene Woldemar, Ph. D., LL. D., Dean and Director, College of Agriculture, University of California, Berkeley, Cal. (11). 1874. **B C E**

*Hill, Albert Frederick, Osborn Botanical Laboratory, New Haven, Conn. (61). 1915. **G**

Hill, Albert James, New Westminster, B. C., Canada. (63).

*Hill, Albert Ross, Ph. D., LL. D., President, University of Missouri, Columbia, Mo. (58). 1910. **H L**

*Hill, Arthur Edward, Ph. D., Professor of Chemistry, New York University, New York, N. Y. (58). 1911. **C**

Hill, Burritt Howell, First National Bank, Neodesha, Kansas. (65).

Hill, Charles O., 1835 Melrose Ave., Knoxville, Tenn. (64).

*Hill, David Spence, Ph. D., Director, Department of Educational Research, Public Schools, New Orleans, La. (60). 1911. H L

*Hill, Eben Clayton, M. D., First Lieut., Medical Corps, U. S. A., College Ave., Poughkeepsie, N. Y. (54). 1906. K

*Hill, Edwin Allston, Ph. D., Assistant Professor of Chemistry, George Washington University, Washington, D. C. (52). 1911. C D

Hill, Herbert M., University of Buffalo, Buffalo, N. Y. (58). B C

*Hill, John Edward, Sc. D., Professor of Civil Engineering, Brown University, Providence. R. I. (44). 1897. D

Hill, Joseph Henry, D. D., LL. D., President, Kansas State Normal Schools, Emporia, Kan. (61). L

*Hill, Lewis D., Hunter College of the City of New York, New York, N. Y. (58). 1910. B C

*Hill, Robert Thomas, Trinity Building, New York, N. Y. (36). 1889. E

Hill, William K., Carthage College, Carthage, Ill. (54). G

HILLE, HERMANN, Ph. D., 416 North Kenilworth Ave., Oak Park, Ill. (63). C K

*Hillebrand, William Francis, Ph. D., Bureau of Standards, Washington, D. C. (51). 1903. C

*Hillegas, Milo B., Teachers College, Columbia University, New York, N. Y. (62). 1912. L

Hiller, Rev. Karl Wilhelm George, Ph. D., Elgin, Nebraska. (65).

Hiller, Sydney Edward, Alabama Marble Co., 530 Brown-Marx Building, Birmingham, Ala. (65).

*Hilliard, Prof. Curtis Morrison, Simmons College, Boston, Mass. (62). 1915. F

Hillig, Frederick J., S. J., 7 Kioicho, Kojimachi, Tokyo, Japan. (50). B H

Hillman, Oliver S., M. D., New York Post-Graduate Medical School, New York, N. Y. (65). K

Hills, Alfred Kimball, M. D., 541 West End Ave., New York, N. Y. (57). K

Hills, Joseph Lawrence, Sc. D., Dean, College of Agriculture, University of Vermont, Burlington, Vt. (63). G M

Hills, Richard Charles, Ernest and Cranmer Building, Denver, Colo. (62). E

HILLS, THOMAS MCDOUGALL, Assistant Professor of Geology, Ohio State University, Columbus, Ohio. (61). E

Hilpert, Willis S., Ph. D., 543 East 34th St., Chicago, Ill. (58). C K

*Hilprecht, Hermann Vollrat, Ph. D., D. D., LL. D., Leopold Strasse 8, Munich, Germany. (54). 1906. H

Hiltebeitel, Adam Miller, Ph. D., Trappe, Pa. (58). A

Hilton, David Clark, M. D., 305 Richards Block, Lincoln, Nebr. (58). F K

*Hilton, William Atwood, Ph. D., Claremont, Cal. (49). 1906. F H K

*Himes, Charles Francis, Ph. D., LL. D., Carlisle, Pa. (29). 1882. B C

Himes, George Henry, 207 2d St., Portland, Oregon. (65).

*Himowich, Adolph A., M. D., 1913 Madison Ave., New York, N. Y. (51). 1906. A K

Hinchman, Charles S., 3635 Chestnut St., Philadelphia, Pa. (65).

Hinchman, Mrs. Lydia S., 3635 Chestnut St., Philadelphia, Pa. (57). **A E**

*Hinckley, Edwin Smith, Professor of Geology, Brigham Young University, Provo, Utah. (62). 1915. **E**

Hindle, Edward, Quick Laboratory, Cambridge, England. (61). **F**

*Hinds, Henry, U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

*Hinds, John I. D., Ph. D., LL.D., Cumberland University, Lebanon, Tenn. (55). 1908. **C**

*Hinds, Warren Elmer, Ph. D., Professor of Entomology, Alabama Polytechnic Institute, Auburn, Ala. (54). 1906. **F L**

*Hine, James Stewart, Associate Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (48). 1904. **F**

*Hines, Murray Arnold, Ph. D., 1704 Hinman Ave., Evanston, Ill. (60). 1911. **C**

Hinkel, Frank Whitehill, M. D., 581 Delaware Ave., Buffalo, N. Y. (60). **K**

Hinkins, John Edward, M. D., 1467 East 53d St., Chicago, Ill. (58). **K**

*Hinman, Jack Jones, Jr., State University of Iowa, Iowa City, Iowa. (62). 1915. **C**

*Hinrichs, Gustavus Detlef, M. D., 4106 Shenandoah Ave., St. Louis, Mo. (17). 1874. **B C**

*Hinsdale, Wilbert B., M. D., University of Michigan, Ann Arbor, Mich. (54). 1909. **H K**

Hinton, William Augustus, M. D., 1560 Cambridge St., Cambridge, Mass. (60). **C K**

*Hirschfelder, Arthur Douglas, M. D., University of Minnesota, Minneapolis, Minn. (60). 1910. **K**

*Hirschfelder, Joseph Oakland, M. D., Professor of Clinical Medicine, Cooper Medical College, San Francisco, Cal. (51). 1909. **K**

Hirschler, Edmund John, Bluffton College, Bluffton, Ohio. (65). **A B**

Hirshberg, Leonard Keene, M. D., 1937 Madison Ave., Baltimore, Md. (60). **K**

Hirshfeld, Clarence Floyd, Professor of Power Engineering, Cornell University, Ithaca, N. Y. (54). **B C D**

Hitch, Miss Lola S., Palmyra, N. J. (61).

*Hitchcock, Albert Spear, Division of Agrostology, U. S. Department of Agriculture, Washington, D. C. (39). 1892. **G**

Hitchcock, Miss Caroline Judson, 539 Broad St., Meriden, Conn. (50). **B E G**

*Hitchcock, Charles Henry, Ph. D., LL. D., Honolulu, Hawaii. (11). 1874. **E**

*Hitchcock, Fanny R. M., Ph. D., 4038 Walnut St., Philadelphia, Pa. (35). 1906. **F**

*Hitchcock, Hon. Frank Harris, 25 Claremont Ave., New York, N. Y. (49). 1901. I

*Hitchens, A. Parker, M. D., Glen Olden, Pa. (58). 1909. K

*Hite, Bert Holmes, Professor of Agricultural Chemistry, College of Agriculture, Morgantown, W. Va. (60). 1911. C

Hite, J. Ewing, Gallatin, Tenn. (62). G

Hite, Lewis Field, 42 Arlington St., Cambridge, Mass. (58). H L

*Hitzrot, James Morley, M. D., 126 East 37th St., New York, N. Y. (57). 1909. K

*Hoad, William Christian, Professor of Sanitary Engineering, University of Michigan, Ann Arbor, Mich. (54). 1912. D

Hoadley, George Arthur, Sc. D., Professor of Physics, Swarthmore College, Swarthmore, Pa. (40). 1900. C

Hoagland, D. R., Faculty Club, Berkeley, Cal. (66).

Hoagland, Ralph, Professor of Soils, University of Minnesota, Minneapolis, Minn. (53). C

*Hobbs, William Herbert, Ph. D., University of Oregon, Eugene, Oregon. (41). 1893. E

Hobby, C. M., M. D., Iowa City, Iowa. (51). K

*Hoch, August, M. D., Director, Psychiatric Institute, Ward's Island, New York, N. Y. (60). 1911. K

*Hodge, Clifton Fremont, Ph. D., Professor of Biology, Clark University, Worcester, Mass. (58). 1910. F G K L

*Hodge, Frederick Humbert, Professor of Mathematics, Franklin College, Franklin, Ind. (50). 1908. A

*Hodge, Frederick Webb, Bureau of American Ethnology. Smithsonian Institution, Washington, D. C. (52). 1904. H

Hodge, James M., E. M., Big Stone Gap, Va. (29). D E

Hodges, Robert Shattuck, Alabama Geological Survey, University, Ala. (54). C E

*Hodgkins, Howard Lincoln, Ph. D., Head, Department of Mathematics, and Dean, College of Engineering, George Washington University, Washington, D. C. (40). 1896. A C D

Hodgkins, William Candler, Director of Coast Surveys, Manila, P. I. (52). A D E

Hoe, Mrs. R., Jr., 180 W. 59th St., New York, N. Y. (36).

Hoe, Mrs. Richard March, 11 East 71st St., New York, N. Y. (36). L

*Hoen, Albert Berthold, Dixon Park, Mt. Washington, Md. (60). 1915. E

Hoes, Roswell Randall, Chaplain, U. S. N., Navy Yard, Norfolk, Va. (62).

*Hoexter, Samuel J., Department of Engineering, University of Michigan, Ann Arbor, Mich. (64). 1915. D

Hofer, J. K.. C. E., Prince Albert, Saskatchewan, Canada. (64). C D

Hoff, Alfred, M. D., 939 Lowry Building, St. Paul, Minn. (64). K

Hoff, Olaf, C. E., 149 Broadway, New York, N. Y. (57). D

Hoffman, Christian Balzac, Enterprise, Kansas. (50). **D H**

*Hoffman, Frank Sargent, Ph. D., Professor of Philosophy, Union University, Schenectady, N. Y. (52). 1906. **F**

Hoffman, George Edgar, "Longcliff," Logansport, Ind. (57). **K**

*HOFFMAN, SAMUEL VERPLANCK, Morristown, N. J. (52). 1906. **A D**

Hoffmann, Conrad, Agricultural Experiment Station, University of Wisconsin, Madison, Wis. (57). **K**

*HOFFMANN, DR. FRIEDRICH, Charlottenburg, Kant Str. 125, Berlin, Germany. (28). 1881. **C F**

Hofstetter, George A., M. D., 108 South Beaton St., Corsicana, Texas. (58). **K**

Hogan, James Joseph, M. D., 291 Geary St., San Francisco, Cal. (63). **K**

Hogan, Mrs. Louise E., Lock Box 337, Philadelphia, Pa. (52). **C D H I K L**

Hogg, Elton M., Saratoga, Cal. (62). **C E**

*Hogrefe, Louis, 1221 Lincoln Place, Brooklyn, N. Y. (58). 1911. **A B C D E**

*Hogue, Mary J., Ph. D., 14 Norfolk Terrace, Wellesley, Mass. (62). 1913. **F**

Hohf, Julian A., M. D., Tripp, S. D. (60). **K**

Holaday, Horace A., University of Idaho, Moscow, Idaho. (66).

Holbrook, Percy, 185 Madison Ave., New York, N. Y. (51). **D**

Holcomb, Louise, Head, Department of Physics, Pennsylvania College for Women, Pittsburgh, Pa. (65). **A**

Holcomb, Richmond Cranston, M. D., Surgeon, U. S. N., 1713 Q St. N. W., Washington, D. C. (65). **K**

*Holden, Edwin Chapin, Professor of Mining Engineering, University of Wisconsin, Madison, Wis. (62). 1915. **D**

HOLDEN, MRS. L. E., The Hollenden, Cleveland, Ohio. (35).

*Holden, Roy Jay, E. M., Blacksburg, Va. (60). 1911. **E**

Holder, Francis J., Ph. D., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. (61). **A B**

Holding, Arthur, M. D., 98 Chestnut St., Albany, N. Y. (58). **K**

*Holferty, George Mellinger, Ph. D., Department of Botany, Central High School, St. Louis, Mo. (50). 1905. **E G**

*Holgate, Thomas Franklin, Ph. D., LL. D., Professor of Mathematics, Northwestern University, Evanston, Ill. (58). 1910. **A L**

Holland, Robert A., M. D., Calais, Me. (60). **K**

*Holland, William Jacob, Sc. D., Ph. D., LL. D., Director, Carnegie Museum, Pittsburgh, Pa. (37). 1896. **E F G H L**

*Holland, William West, Ph. D., 1122 Madison Ave., Baltimore, Md. (58). 1911. **C**

*Hollick, Charles Arthur, Ph. D., S. I. Association of Arts and Sciences, New Brighton, N. Y. (31). 1892. **E G**

*Hollingworth, Harry Levi, Ph. D., Columbia University, New York, N. Y. (61). 1911. **H**

Hollinshead, Warren H., Sc. D., Wingrove Ave., Nashville, Tenn. (37). **C**

*Hollis, Frederic Stearns, Ph. D., Dudley Road, Charlton, Mass. (60). 1911. C

Hollis, Ira Nelson, Sc. D., President, Worcester Polytechnic Institute, Worcester, Mass. (65). D

Hollister, Emily C., 600 N. Kenmore Ave., Los Angeles, Cal. (66).

Hollister, Frank Canfield, M. D., 264 West 77th St., New York, N. Y. (57). K

*Hollister, N., U. S. National Museum, Washington, D. C. (57). 1911. F

*Holloway, Thomas E., U. S. Department of Agriculture, Audubon Park, New Orleans, La. (62). 1914. F

Holman, Carl, Presque Isle, Me. (61). F

Holman, Frederick Van Voorhies, 501 Chamber of Commerce Building, Portland, Oregon. (65).

Holman, Richard Morris, University of California, Berkeley, Cal. (55). G

Holman, William Frank, Ph. D., College of Engineering, University of Minnesota, Minneapolis, Minn. (62). B

Holmes, Harriet F., 5218 Kenwood Ave., Hyde Park Station, Chicago, Ill. (62). K

*Holmes, Joseph Austin, Sc. D., LL. D., Director, U. S. Bureau of Mines, Washington, D. C. (33). 1887. D E

*Holmes, Manfred James, Professor of Psychology, Illinois State Normal University, Normal, Ill. (58). 1914. H L

Holmes, Mary Elizabeth, Ph. D., Associate Professor of Chemistry, Mt. Holyoke College, South Hadley, Mass. (60). C

Holmes, Miss Mary S., 147 Manheim St., Philadelphia, Pa. (50). E

*Holmes, Samuel Jackson, Ph. D., Associate Professor of Zoology, University of California, Berkeley, Cal. (51). 1904. F

*Holmes, Prof. William Henry, Head Curator of Anthropology, U. S. National Museum, Washington, D. C. (30). 1883. H

Holmes, Willis Boit, Ph. D., 1337 Buckland Ave., Fremont, Ohio. (62). C

Holsinger, S. J., Sunshine Station, Meteor, Ariz. (58). A H

Holt, Byron Webber, 54 Broad St., New York, N. Y. (60). I

Holt, Caroline Maude, Department of Zoology, Wellesley College, Wellesley, Mass. (65). F

Holt, Erastus Eugene. M. D., 723 Congress St., Portland, Me. (54). I K L

*Holt, Henry, LL. D., 34 West 33d St., New York, N. Y. (29). 1908. I

Holt, Joseph H., M. D., Sherman, Texas. (60). K

Holt, Sidney Viel, 912 West Nevada St., Urbana, Ill. (64). G

Holtgrewe, Frederick W., 1601 Blair Ave., St. Louis, Mo. (60). K

*Holton, Henry D., M. D., Brattleboro, Vt. (44). 1909. I

*Holtz, Frederick Leopold, 1421 President St., Brooklyn, N. Y. (58). 1911. E F G L

*Holway, Ruliff Stephen, Professor of Physical Geography, University of California, Berkeley, Cal. (65). 1915. E

*Holzinger, John M., Professor of Botany, State Normal School, Winona, Minn. (54). 1909. G

Homans, John, M. D., 154 Riverway, Boston, Mass. (60). K

Homburg, Frederick, Teacher of Chemistry, Woodward High School, Cincinnati, Ohio. (51). **C E**

Homer, Charles S., 456 Fourth Ave., New York, N. Y. (29).

Homer, Francis Theodore, 40 Wall St., New York, N. Y. (65).

Homer, Harry L., M. D., 714 Park Ave., Baltimore, Md. (60). **K**

Honey, William, E. E., Tequisquiapan, Queretaro, Mexico. (58). **D**

*Hood, Ozni Porter, Chief Mechanical Engineer, U. S. Bureau of Mines, Pittsburgh, Pa. (51). 1906. **D**

Hood, William, C. E., 1136 Flood Building, San Francisco, Cal. (35). **D**

*Hooker, Davenport, Ph. D., 846 Orange St., New Haven, Conn. (52). 1911. **F K**

*Hooker, Donald Russell, M. D., Assistant Professor of Physiology, Johns Hopkins University, Baltimore, Md. (50). 1907. **K**

Hooker, Henry Daggett, Jr., 846 Orange St., New Haven, Conn. (63). **G**

Hooker, Ransom S., M. D., 175 East 71st St., New York, N. Y. (66). **K**

Hooker, Samuel Cox, Ph. D., 82 Remsen St., Brooklyn, N. Y. (62). **C**

*Hooker, William A., Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (54). 1914. **F**

*Hooper, Everett Dennison, M. D., Ph. D., Warren Chambers, Boston, Mass. (57). 1911. **C K**

Hooper, Mrs. George W., 1300 Jones St., San Francisco, Cal. (66).

*Hooper, William Leslie, Ph. D., Professor of Electrical Engineering, Tufts College, Tufts College, Mass. (60). 1911. **E**

*Hoopes, Homer E., 302 South Orange St., Media, Pa. (52). 1913. **E H**

Hoover, C. F., 1903 East 75th St., Cleveland, Ohio. (63).

*Hoover, Herbert Clark, Red House, Hornton St., London, England. (51). 1915. **E**

Hoover, Mrs. Lou Henry, Red House, Hornton St., London, England. (51). **E**

*Hopkins, Andrew Delmar, Ph. D., Cosmos Club, Washington, D. C. (42). 1899. **F**

Hopkins, Anderson Hoyt, R. F. D. 7, Niles, Mich. (52).

*Hopkins, Arthur John, Ph. D., Amherst College, Amherst, Mass. (44.) 1900. **C**

*Hopkins, B. Smith, Ph. D., 706 W. California St., Urbana, Ill. (60). 1911. **C**

Hopkins, Ben. F., 830 Society for Savings Building, Cleveland, Ohio. (63).

*Hopkins, Cyril George, Ph. D., Professor of Agronomy, University of Illinois, Urbana, Ill. (57). 1909. **C G M**

Hopkins, E. Guy, Professor of Clinical Pathology, University College of Medicine, Richmond, Va. (63). **K**

*Hopkins, Grant Sherman, Sc. D., Cornell University, Ithaca, N. Y. (41). 1900. **F**

Hopkins, Prof. Lewis S., State Normal School, Kent, Ohio. (62). **G**

*Hopkins, Louis J., Winnetka, Ill. (58). 1913. **H I**

Hopkins, Milton J., M. D., 3756 Lindell Boulevard, St. Louis, Mo. (60). **K**

*Hopkins, Rupert Henry, 103 College Ave., West New Brighton, N. Y. (54). 1911. **B**

*Hopkins, Samuel Augustus, M. D., 235 Marlborough St., Boston, Mass. (54). 1911. **K**

*Hopkins, Thomas Cramer, Ph. D., Professor of Geology, Syracuse University, Syracuse, N. Y. (38). 1898. **E**

Hoppenstedt, Edward H., A. W. Hoppenstedt Laboratory, Perry and Mississippi Sts., Buffalo, N. Y. (63).

Hord, A. C., 7404 Euclid Ave., Cleveland, Ohio. (63).

*Hornell, William Garfield, Ph. D., Professor of Physics, Ohio Wesleyan University, Delaware, Ohio. (48). 1911. **B**

*Horn, David Wilbur, Ph. D., Lock Box 12, Bryn Mawr, Pa. (58). 1911. **C**

Horn, Wilbur F., Carlisle, Pa. (60). **C**

*Horne, Herman Harrell, Ph. D., Leonia, N. J. (58). 1910. **H L**

Horne, Perley L., President, Kamehameha Schools, Honolulu, Hawaii. (58). **I L**

*Horne, William Titus, Assistant Professor of Plant Pathology, University of California, Berkeley, Cal. (62). 1913. **G**

Hornsby, John Allan, M. D., 1502 Tower Building, Chicago, Ill. (63). **K**

Hornung, Christian, Sc. D., Professor of Mathematics and Astronomy, Heidelberg University, Tiffin, Ohio. (50). **A D**

Horowitz, Murray P., 1024 Simpson St., Bronx, New York, N. Y. (65). **C K**

Horsley, John Shelton, M. D., 617 West Grace St., Richmond, Va. (60). **K**

Horton, Byron Barnes, Sheffield, Pa. (54). **F G**

Horton, George Diack, Oregon State Agricultural College, Corvallis, Oregon. (65). **G**

Horton, George M., M. D., Cobb Building, Seattle, Wash. (60). **K**

Horton, J. R., 6328 Constance St., New Orleans, La. (63). **F**

*Hortvet, Julius, State Chemist, Old Capitol, St. Paul, Minn. (50). 1906. **C**

*Hoskins, Leander Miller, Professor of Applied Mathematics, Leland Stanford Junior University, Stanford University, Cal. (54). 1906. **A D**

*Hoskins, R. G., Ph. D., Northwestern University Medical School, Chicago, Ill. (61). 1915. **K**

*Hoskins, William, 49 Sixth Ave., La Grange, Ill. (34). 1904. **C**

Hosmer, Ralph S., Professor of Forestry, N. Y. State College of Agriculture, Cornell University, Ithaca, N. Y. (66). **M**

Hosmer, Sidney, E. E., 39 Boylston St., Boston, Mass. (50). **D**

Hotchkiss, Henry DeWitt, 27 Madison Ave., New York, N. Y. (57).

*Hotchkiss, Homer James, Professor of Physics, Drexel Institute, Philadelphia, Pa. (54). 1906. **B**

*Hotchkiss, William Otis, C. E., Wisconsin Geological and Natural History Survey, Madison, Wis. (58). 1913. **D E**

Hotson, John William, Ph. D., 418 East 44th St., Seattle, Wash. (64).
Hottenroth, Adolph C., 303 So. Bayview Ave., Freeport, N.Y. (65).
Hottenroth, Frederick W., 981 Prospect Ave., Bronx, New York, N. Y. (57).
*Hottes, Charles Frederick, Ph. D., Assistant Professor of Botany, University of Illinois, Urbana, Ill. (54). 1909. **G**
*Hough, Garry de N., M. D., 542 County St., New Bedford, Mass. (60). 1914. **K**
*Hough, R. H., Assistant Professor of Physics, University of Pennsylvania, Philadelphia, Pa. (60). 1911. **B D**
*Hough, Theodore, Ph. D., Professor of Physiology, University of Virginia, Charlottesville, Va. (51). 1903. **K**
*Hough, Walter, Ph. D., U. S. National Museum, Washington, D. C. (38). 1890. **H**
Houghton, Clement Stevens, 152 Suffolk Road, Chestnut Hill, Mass. (60).
Houghton, Clinton Osborne, Professor of Zoology and Botany, Delaware College, Newark, Del. (58). **F G**
*Houghton, E. Mark, M. D., 130 Longfellow Ave., Detroit, Mich. (52). 1906. **K**
Houghton, Harris A., M. D., Bayside, L. I., N. Y. (60). **K**
Houk, Ivan Edgar, C. E., care of Morgan Engineering Co., Dayton, Ohio. (64). **D E**
*Houser, Gilbert Logan, Ph. D., Professor of Animal Biology, State University of Iowa, Iowa City, Iowa. (50). 1906. **F K**
Houser, John Samuel, Ohio Agricultural Experiment Station, Wooster, Ohio. (58). **F G**
Houser, True, Ohio Agricultural Experiment Station, Germantown, Ohio. (62). **G**
*Hovda. Olaf. 3910 Peters Ave., Sioux City, Iowa. (62). 1915. **B**
*Hovey, Edmund Otis, Ph. D., Curator of Geology, American Museum of Natural History, New York, N. Y. (36). 1895. **C E**
Hoving, Johannes, M. D., Ph. D., 450 Audubon Ave., New York, N. Y. (60). **K**
Howald, Ferdinand, E. M., 78 Park Drive, Bexley, Columbus, Ohio. (60). **D**
*Howard, Arthur Day, Ph. D., U. S. Biological Station, Fairport, Iowa. (57). 1909. **F K**
*Howard, Burton James, 1212 Decatur St., N. W., Washington, D. C. (60). 1911. **C G**
*Howard, Campbell P., M. D., University Hospital, Iowa City, Iowa. (62). 1915. **K**
*Howard, Charles Danforth, Chemist, N. H. Board of Health, Concord, N. H. (60). 1911. **C**
Howard, Charles P., M. E., 116 Farmington Ave., Hartford, Conn. (51). **D**
Howard, Charles T., 1735 East Ave., Rochester, N. Y. (58). **D F**

*Howard, Charles Walter, College of Agriculture, University Farm, St. Paul, Minn. (58). 1915. **F K**

*Howard, Prof. Curtis C., 151 East Broad St., Columbus, Ohio. (38). 1892. **C**

Howard, Harry Turner, 3513 St. Charles Ave., New Orleans, La. (55).

*Howard, Henry, Chemical Engineer, 36 Amory St., Brookline, Mass. (57). 1908. **C**

*HOWARD, LELAND O., M. D., Ph. D., LL. D., Chief, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (37). 1889. **F**

Howard, Leslie E., 215 Niagara St., Lockport, N. Y. (63). **C**

Howard, Orson, M. D., Curator of Museum, University of Utah, Salt Lake City, Utah. (50). **F K**

*Howard, Samuel Francis, Ph. D., Head, Department of Chemistry, Norwich University, Northfield, Vt. (50). 1901. **B C**

Howard, Walter Lafayette, Ph. D., University Farm School, Davis, Cal. (65). **G**

Howard, William Colman, 246 Washington Ave., Brooklyn, N. Y. (57).

*Howard, William Travis, M. D., Western Reserve Medical College, Cleveland, Ohio. (54). 1906. **K**

*Howat, William Frederick, M. D., 577 Hohman St., Hammond, Ind. (58). 1913. **H K L**

*Howe, Charles Sumner, Sc. D., Ph. D., LL. D., President, Case School of Applied Science, Cleveland, Ohio. (34). 1891. **A D L**

*Howe, Clifton D., Ph. D., Department of Botany, University of Toronto, Toronto, Canada. (57). 1915. **G**

HOWE, ELMER PARKER, P. O. Box 1825, Boston, Mass. (60).

*Howe, Ernest, Ph. D., 77 Rhode Island Ave., Newport, R. I. (52). 1906. **D E**

Howe, Eugene Clarence, Massachusetts Institute of Technology, Boston, Mass. (57). **K**

Howe, Freeland, Jr., Chemist and Bacteriologist, Norway, Maine. (53). **C E F G**

*Howe, George Plummer, M. D., 384 Commonwealth Ave., Boston, Mass. (62). 1913. **K**

*Howe, Henry Marion, LL. D., Broad Brook Road, Bedford Hills, New York, N. Y. (50). 1901. **D**

*Howe, Herbert Alonzo, Sc. D., Ph. D., LL. D., Dean, College of Liberal Arts, University of Denver, University Park, Colo. (50). 1901. **A**

*Howe, James Lewis, M. D., Ph. D., Professor of Chemistry, Washington and Lee University, Lexington, Va. (36). 1888. **C**

*Howe, Malverd A., Professor of Civil Engineering, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1911. **D**

*Howe, Marshall Avery, Ph. D., New York Botanical Garden, Bronx Park, New York, N. Y. (49). 1903. **G**

*Howe Paul Edward, Ph. D., Assistant Professor of Biological Chemistry, Columbia University, New York, N. Y. (58). 1913. **C K**

Howe, Walter Clarke, M. D., 303 Beacon St., Boston, Mass. (60). **K**
Howe, William Bell White, M. D., P. O. Box 12, Hendersonville, N. C. (61). **K**
Howell, A. Brazier, Covina, Cal. (65).
Howell, John White, E. E., 211 Ballantine Parkway, Newark, N. J. (50). **D**
Howell, W. L., Room 314, Custom House, New Orleans, La. (58). **C**
*Howell, William Henry, M. D., Ph. D., LL. D., Professor of Physiology, Johns Hopkins University, Baltimore, Md. (50). 1901. **F K**
Howell, William O., 4310 Pine St., Philadelphia, Pa. (66). **C F**
*Hower, Harry Sloan, Associate Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. (50). 1907. **B**
Howes, Jarvis M., M. D., Sellersburg, Ind. (60). **K**
*Howison, George Holmes, LL. D., 2631 Piedmont Ave., Berkeley, Cal. (54). 1908. **A H I L**
*Howitt, John Eaton, Professor of Botany, Ontario Agricultural College, Guelph, Ont., Can. (63). 1915. **G**
Howland, Clarence Henry, D. D. S., 825 Vermont Ave., Washington, D. C. (63). **K**
*Howland, Henry Raymond, Library Building, Buffalo, N. Y. (60). 1914. **H**
*Howland, John, M. D., Johns Hopkins Hospital, Baltimore, Md. (62). 1914. **K**
Howland, Randolph H., 164 Wildwood Ave., Upper Montclair, N. J. (54). **F**
Howson, Hubert, E. E., 55 Liberty St., New York, N. Y. (60). **D**
*Hoxie, George Howard, M. D., 1334 Rialto Building, Kansas City, Mo. (62). 1911. **K**
*Hoxton, Llewellyn Griffith, Associate Professor of Physics, University of Virginia, Charlottesville, Va. (54). 1906. **B**
*Hoyle, William Evans, Sc. D., Director, National Museum of Wales, City Hall, Cardiff, Wales. (61). 1914. **F**
Hoyt, Olive Sawyer, 52 Niban-cho, Matsuyama, Japan. (52). **C**
Hoyt, Wilbur Franklin, Professor of Physical Science, State Normal School, Peru, Nebr. (62). **B**
*Hoyt, William Dana, M. D., Ph. D., Johns Hopkins University, Baltimore, Md. (60). 1915. **G**
*Hrdlicka, Alēs, M. D., Curator of Anthropology, U. S. National Museum, Washington, D. C. (46). 1897. **H K**
*Huard, Rev. Victor Alphonsus, 2 Port-Dauphin St., Quebec, Canada. (63). 1914. **F**
*Hubbard, George David, Ph. D., Professor of Geology, Oberlin College, Oberlin, Ohio. (55). 1909. **E H I L**
Hubbard, Henry R., Plainfield High School, Plainfield, N. J. (64).
*Hubbard, John Charles, Ph. D., Professor of Physics, Clark University, Worcester, Mass. (58). 1911. **B L**
*Hubbard, Marian Elizabeth, Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (58). 1915. **F**

*Hubbard, Prévost, Chief, Division of Roads and Pavements, Institute of Industrial Research, Washington, D. C. (63). 1914. **C D**

Hubbard, Walter Comstock, Coffee Exchange Building, New York, N. Y. (49).

Hubbell, Henry S., Ashburnham, Mass. (57). **D**

Hubbell, J. L., Ganado, Ariz. (58). **H I**

Hubbs, Carl L., 720 Cowper St., Palo Alto, Cal. (65).

*Huber, G. Carl. M. D., Professor of Histology and Embryology, University of Michigan, Ann Arbor, Mich. (50). 1901. **K**

Hubert, J. Frank, M. D., 6820 Union Ave., Chicago, Ill. (60). **K**

Hudelson, R. R., University of Missouri, Columbia, Mo. (66). **M**

*Hudson, Claude Silbert, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **B C**

Hudson, Erastus Meade, 39 Broad St., Plattsburg, N. Y. (57). **F**

*Hudson, George Henry, Vice-Principal, Science Department, State Normal School, Plattsburg, N. Y. (31). 1901. **F**

Hudson, James A., 81 Paulding Ave., Tarrytown, N. Y. (57).

Huff, N. L., Assistant Professor of Botany, University of Minnesota, Minneapolis, Minn. (62). **G**

*Huff, William Bashford, Ph. D., Professor of Physics, Bryn Mawr College, Bryn Mawr, Pa. (60). 1910. **B**

Hughes, David Edward, C. E., U. S. Engineer Office, 723 Central Building, Los Angeles, Cal. (60). **D**

Hughes, Francis T., Department of Biology, Boys' High School, Brooklyn, N. Y. (58). **F G L**

*Hughes, Hector James, Professor of Civil Engineering, Harvard University, Cambridge, Mass. (60). 1915. **D**

Hughes, John Wilbur, C. E., General Electric Co., Erie, Pa. (58). **D**

*Hughes, Percy. Ph. D., Assistant Professor of Philosophy and Psychology, Lehigh University, South Bethlehem, Pa. (58). 1915. **H L**

*Hughes, Raymond Mollyneaux, President, Miami University, Oxford, Ohio. (57). 1908. **C**

*Hull, Gordon Ferrie, Ph. D., Professor of Physics, Dartmouth College, Hanover, N. H. (50). 1903. **B**

Hull, Leonard C., M. D., 343 5th St., Hollister, Cal. (66). **C**

Humbert, Eugene Peter, Ph. D., Professor of Agronomy, N. M. College of A. and M. Arts, State College, N. M. (63). **G M**

Hume, A. N., Ph. D., Professor of Agronomy, South Dakota Agricultural Experiment Station, Brookings, S. D. (63). **G M**

*Hume, Alfred, C. E., Sc. D., Professor of Mathematics, University of Mississippi, University, Miss. (39). 1909. **A D**

*Hummel, John Adolph, 2143 Commonwealth Ave., St. Anthony Park, Minn. (48). 1911. **C**

*Humphrey, Clarence John, Forest Products Laboratory, Madison, Wis. (61). 1911. **G**

*Humphrey, Harry Baker, Ph. D., U. S. Department of Agriculture, Washington, D. C. (55). 1911. **G**

*Humphrey, Richard Lewis, C. E., 805 Harrison Building, Philadelphia, Pa. (48). 1902. **D**

*Humphreys, Alexander Crombie, M. D., Sc. D., LL. D., President, Stevens Institute of Technology, Hoboken, N. J. (49). 1907. **D**

Humphreys, David Carlisle, C. E., Professor of Civil Engineering, Washington and Lee University, Lexington, Va. (53). **D**

Humphreys, Frederick B., M. D., 630 West 141st St., New York, N. Y. (57). **K**

*Humphreys, William Jackson, Ph. D., Professor of Meteorology, U. S. Weather Bureau, Washington, D. C. (54). 1906. **A B D**

Hungerford, Herbert B., University of Kansas, Lawrence, Kans. (64). **F**

Hunn, Fred A., P. O. Box 36, Ross, Cal. (65).

Hunn, Chester Jermain, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (58). **G**

Hunner, Guy Leroy, M. D., 2305 St. Paul St., Baltimore, Md. (60). **K**

Hunt, Agnes, Professor of Domestic Science, Michigan Agricultural College, East Lansing, Mich. (64).

Hunt, Arthur E., Teacher of Biology, Manual Training High School, Brooklyn, N. Y. (54). **F L**

Hunt, Harrison Randall, 69 Oxford St., Cambridge, Mass. (65).

Hunt, N. Rex, U. S. Department of Agriculture, Washington, D. C. (63). **G**

*Hunt, Reid, M. D., Ph. D., Professor of Pharmacology, Harvard University, Cambridge, Mass. (58). 1910. **C K**

Hunt, Rockwell Dennis, Ph. D., R. F. D., Box 88, Inglewood, Cal. (65).

*Hunt, Walter Frederick, Department of Mineralogy, University of Michigan, Ann Arbor, Mich. (57). 1911. **C E**

Hunter, Andrew, Professor of Pathological Chemistry, University of Toronto, Toronto, Canada. (60). **C K**

*Hunter, Andrew Frederick, Normal School Building, Toronto, Canada. (38). 1896. **B H I**

Hunter, George E., M. E., Superintendent, Elgin National Watch Co., Elgin, Ill. (60). **D**

*Hunter, George William, Head, Department of Biology, DeWitt Clinton High School, New York, N. Y. (51). 1915. **F**

Hunter, John Frederick, Young Men's Christian Association, Washington, D. C. (63). **E**

Hunter, John Vincent, M. E., 14 Sidney Place, Minneapolis, Minn. (60). **D**

Hunter, Rutherford H., Professor of Physics, University of Wooster, Wooster, Ohio. (63). **B**

*Hunter, Samuel John, Professor of Entomology, University of Kansas, Lawrence, Kans. (50). 1902. **F**

*Hunter, Walter David, U. S. Department of Agriculture, Washington, D. C. (50). 1905. **F**

HUNTINGTON, ARCHER MILTON, Hispanic Society of America, 156th St. near Broadway, New York, N. Y. (57).

*Huntington, Edward Vermilye, Ph. D., Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. (58). 1908. A

*Huntington, Ellsworth, Ph. D., Department of Geography, Yale University, New Haven, Conn. (51). 1909. E

Huntington, F. W., 1801 Dorchester Road, Brooklyn, N. Y. (60). B

Huntington, Frank, U. S. Dept. of Agriculture, Washington, D. C. (62).

*Huntington, George Sumner, M. D., Sc. D., LL. D., Professor of Anatomy, Columbia University, New York, N. Y. (52). 1906. F K

Huntsman, Frank C., C. E., P. O. Box 1334, Alliance, Nebr. (60). D

Huntting, Miss Ella, State Normal School, Upper Montclair, N. J. (64). E

*Hurd, Henry Mills, M. D., 1023 St. Paul St., Baltimore, Md. (58). 1909. H K

Hurd, Richard Melancthon, 59 Liberty St., New York, N. Y. (58). I

*Hurd, Prof. William Daniel, Massachusetts Agricultural College, Amherst, Mass. (60). 1911. G

Hurlburt, Mary F.. 155 Summit Ave., Summit, N. J. (63).

*Hurst, Julius H., M. D., P. O. Box 13, Montecito, Cal. (52). 1913. H K

Hurt, Henry H., P. O. Box 208, Covington, Va. (58). C

Hurter, Julius, Sr., 2346 South 10th St., St. Louis, Mo. (63). D

*Hurty, John N., M. D., 17 East 11th St., Indianapolis, Ind. (58). 1909. K

*Hurwitz, Wallie Abraham, Ph. D., Cornell University, Ithaca, N. Y. (63). 1913. A

Husik, Isaac, Ph. D., 408 South 9th St., Philadelphia, Pa. (60). H

*Hussakof, Louis, Ph. D., American Museum of Natural History, New York, N. Y. (56). 1911. F

Hussey, Harry Brigham, E. E., 309 O. C. S. Bank Building, Syracuse, N. Y. (60). D

*Hussey, William Joseph, Sc. D., Professor of Astronomy, University of Michigan, Ann Arbor, Mich. (58). 1909. A

*Huston, Henry Augustus, Room 1804, 42 Broadway, New York, N. Y. (53). 1911. C

Hutchings, Stanley R., M. D., 502 West High St., Springfield, Ohio. (60). K

Hutchings, Willard Hunter, M. D., Fine Arts Building, Detroit, Mich. (60). K

*Hutchins, Charles Clifford, Professor of Physics, Bowdoin College, Brunswick, Me. (58). 1910. B

*Hutchins, Edgar Burton, Jr., Ph. D., 174 East 1st St., Fond du Lac, Wis. (57). 1909. C

*Hutchinson, Cary Talcott, Ph. D., Consulting Engineer, 60 Wall St., New York, N. Y. (58). 1910. B D

Hutchinson, Edward S., C. E., M. E., 34 South State St., Newtown, Pa. (58). D

Hutchinson, John P., "Cloverdale," Georgetown, N. J. (65).

Hutchinson, Woods, M. D., Hotel Marseilles, New York, N. Y. (56). K L

Hutchison, Claude Burton, Assistant Professor of Agronomy, College of Agriculture, Columbia, Mo. (65). M

Hutchison, George S., 434 South Irving Ave., Chicago, Ill. (66). M

Hutchison, Miller Reese, Chief Engineer, Edison Laboratory, Orange, N. J. (65). D

Hutshing, Edwin E., 1013 Green Building, Seattle, Wash. (65).

Hutton, Joseph Gladden, Associate Professor of Agronomy, S. D. State College of A. and M. Arts, Brookings, S. D. (63). E G M

Hutton, Sarah Elizabeth, 67 West 106th St., New York, N. Y. (65). G

Hyams, Miss Isabel F., 26 Wales St., Dorchester, Mass. (47). C

Hyde, Abraham Lincoln, Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. (54). D

*Hyde, B. T. Babbitt, 11 Broadway, New York, N. Y. (43). 1913. C D H

Hyde, Miss Edith E., 1840 Summit Place, N. W., Washington, D. C. (50). H I

*Hyde, Edward Pechin, Ph. D., General Electric Co., Nela Park, Cleveland, Ohio. (60). 1910. B

*Hyde, Edward Wyllys, care Col. Life Insurance Co., 44 Elm St., Cincinnati, Ohio. (25). 1881. A

Hyde, Edwin Francis, 36 West 58th St., New York, N. Y. (43). A

Hyde, Frederick E., M. D., 542 Fifth Ave., New York, N. Y. (43). E K

Hyde, Frederick E., Jr., 542 Fifth Ave., New York, N. Y. (43). H

Hyde, Henry St. John, 210 East 18th St., New York, N. Y. (49). B C D E

Hyde, Ida Henrietta, Ph. D., Professor of Physiology, University of Kansas, Lawrence, Kansas. (65). K

*Hyde, Jesse Earl, Associate Professor of Geology, Western Reserve University, Cleveland, Ohio. (57). 1911. E F

*Hyde, John, 1840 Summit Place, N. W., Washington, D. C. (47). 1898. E I

Hyde, Perley Charles, Department of Mathematics, Jersey City High School, Jersey City, N. J. (58). A B C H L

Hyde, Roscoe Raymond, Professor of Zoology and Botany, Indiana State Normal School, Terre Haute, Ind. (60). F G

*Hyslop, James A., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (60). 1914. F

*Hyslop, James Hervey, Ph. D., LL. D., 519 West 149th St., New York, N. Y. (56). 1911. I

Hyslop, John, 4 Riverview Terrace, New York, N. Y. (57).

*Iddings, Joseph Paxson, Sc. D., Brinklow, Md. (31). 1884. E

Iknayan, Nicholas C., M. D., 613 6th St., Charleston, Ill. (60). K

*Iles, George, Park Avenue Hotel, New York, N. Y. (31). 1898. I

Illick, John Theron, Department of Zoology, West Virginia University, Morgantown, W. Va. (66). F

Illingworth, James Franklin, College of Hawaii, Honolulu, Hawaii. (65). F

Illmer, Louis, Jr., 117 Windsor St., Reading, Pa. (64).

Illoway, Henry, M. D., 1113 Madison Ave., New York, N. Y. (57). K L

Imlay, Lorin Everett, E. E., Superintendent, Niagara Falls Power Company, Niagara Falls, N. Y. (60). D

Ingall, Elfric Drew, M. E., Geological Survey of Canada, Ottawa, Canada. (60). E

Ingalls, Mrs. Carrie Crane, Peralta Apartments, Oakland, Cal. (66).

Ingalsbe, Frank Richmond, Forestry Service, Missoula, Mont. (62). E M

Ingalsbe, Hon. Grenville Mellen, First Vice-President, N. Y. State Historical Association, Hudson Falls, N. Y. (62).

Ingersoll, John M., M. D., 1021 Prospect Ave., Cleveland, Ohio. (60). K

*Ingersoll, Leonard Rose, Ph. D., Associate Professor of Physics, University of Wisconsin, Madison, Wis. (58). 1910. B

Ingham, Edward Alexander, Mass. Institute of Technology, Boston, Mass. (65). F

*Inglis, Alexander J., Ph. D., Assistant Professor of Education, Harvard University, Cambridge, Mass. (63). 1913. L

Ingraham, George Landon, LL. D., 80 Irving Place, New York, N. Y. (57).

*Ingram, Edward Lovering, C. E., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. (51). 1915. D

Ingram, George M., State and Felder Sts., Nashville, Tenn. (65). D

Irvin, Oscar William, Professor of Physics, Toledo University, Toledo, Ohio. (64). B

*Irving, John Duer, Ph. D., Professor of Economic Geology, Yale University, New Haven, Conn. (51). 1903. D E

Irving, Mrs. Rosina J., 29th St., Beechhurst, White Stone Landing, New York, N. Y. (57).

Irwin, Frederick C., Central High School, Detroit, Mich. (60). I

Irwin, Ralph Edward, State Department of Health, Harrisburg, Pa. (60). D F

Isaacs, Irwin M., 6 Bluff, Yokohama, Japan. (65).

Isaacs, Raphael, 3552 Bogart Ave., Cincinnati, Ohio. (63). F K

*Isaacs, Schachne, University of Cincinnati, Cincinnati, Ohio. (65). 1915. H

Isely, Frederick B., Professor of Biology, Central College, Fayette, Mo. (61). F

*Isham, George Snow, M. D., 1340 North State St., Chicago, Ill. (54). 1906. A K

Israelsen, O. W., University Farm, Davis, Cal. (66).

*Ives, Frederic Eugene, 1205 Race St., Philadelphia, Pa. (44). 1898. B

*Ives, Herbert Eugene, Ph. D., 3101 Passyunk Ave., Philadelphia, Pa. (62). 1915. B

*Ives, James Edmund, Ph. D., Clark University, Worcester, Mass. (58). 1910. B

Ives, Judson Dunbar, 5556 Drexel Ave., Hyde Park Station, Chicago, Ill. (60). F

*Jablonowski, Joseph, Director, Entomological Station of the State, Budapest, Hungary. (58). 1914. F

Jaches, Leopold, M. D., Loomis Laboratory, Cornell University Medical College, New York, N. Y. (57). **B C K**

*Jack, John George, Assistant Professor of Dendrology, Harvard University, Cambridge, Mass. (31). 1890. **F G**

*Jackson, Abraham Wendell, 9 Woodcrest Ave., White Plains, N. Y. (54). 1906. **E L**

Jackson, C. Floyd, Professor of Zoology, New Hampshire College, Durham, N. H. (58). **F**

*Jackson, Clarence Martin, M. D., Professor of Anatomy, University of Minnesota, Minneapolis, Minn. (58). 1911. **F K**

*Jackson, Daniel Dana, Professor of Sanitary Engineering, Columbia University, N. Y. (60). 1911. **C D**

*Jackson, Dennis Emerson, Ph. D., Associate in Pharmacology, Washington University Medical School, St. Louis, Mo. (62). 1914. **K**

*Jackson, Dugald Caleb, C. E., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. (60). 1911. **D**

*Jackson, Hartley H. T., Biological Survey, U. S. Department of Agriculture, Washington, D. C. (61). 1915. **F L**

*Jackson, Herbert Spencer, Professor of Botany and Plant Pathology, Oregon Experiment Station, Corvallis, Ore. (60). 1913. **G**

*Jackson, Holmes Condict, Ph. D., Professor of Physiology, New York University, New York, N. Y. (57). 1908. **K**

*Jackson, John Price, E. E., Dean, School of Engineering, Pennsylvania State College, State College, Pa. (61). 1912. **D**

Jackson, Reginald H., M. D., 415 No. Carrol St., Madison, Wis. (64). **K**

*Jackson, Robert Tracy, Sc. D., 195 Bay State Road, Boston, Mass. (37). 1890. **F**

Jackson, Victor Hugo, M. D., 40 East 41st St., New York, N. Y. (51). **K**

*Jacobi, Abraham, M. D., LL. D., 19 East 47th St., New York, N. Y. (57). 1911. **K L**

Jacobs, E. E., Professor of Natural Sciences, Ashland College, Ashland, Ohio. (64).

*Jacobs, Henry Barton, M. D., 11 Mt. Vernon Place, Baltimore, Md. (50). 1909. **F G K L**

*Jacobs, J. Warren, 404 South Washington St., Waynesburg, Pa. (54). 1906. **F**

*Jacobs, Merkel Henry, Ph. D., Assistant Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (62). 1913. **F**

Jacobs, Michael William, 222 Market St., Harrisburg, Pa. (50). **I**

Jacobs, Michael William, Jr., Commonwealth Trust Building, Harrisburg, Pa. (65). **A I**

*Jacobson, Carl Alfred, Ph. D., Professor of Chemistry, University of Nevada, Reno, Nev. (65). 1915. **C**

*Jacobus, David Schenck, M. E., 85 Liberty St., New York, N. Y. (36). 1889. **A B D**

Jacobus, R. Fulton, M. E., Ridgefield, N. J. (60). **D**

*Jacoby, Harold, Ph. D., Professor of Astronomy, Columbia University, New York, N. Y. (38). 1891. **A**

*Jacoby, Henry Sylvester, Professor of Bridge Engineering, Cornell University, Ithaca, N. Y. (36). 1892. **D L**

*Jaeger, Dr. F. M., University of Groningen, Groningen, Holland. (64). 1915. **C**

*Jaffa, Meyer Edward, Professor of Nutrition, University of California, Berkeley, Cal. (65). 1915. **C**

*Jagger, Ivan Claude, University of Rochester, Rochester, N. Y. (63). 1915. **G**

James, Charles C., 144 St. George St., Toronto, Canada. (46). **I**

James, John Nelson, Indiana State Normal School, Indiana, Pa. (58). **C**

*James, Joseph Hidy, Ph. D., Professor of Chemical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. (58). 1911. **C D L**

James, Mrs. Sarah Stubbs, 1504 R St., Washington, D. C. (49). **H I**

*James, Walter Belknap, M. D., LL. D., 17 West 54th St., New York, N. Y. (54). 1906. **K**

Jameson, Arthur H., E. M., Whortleberry Road, Branford, Conn. (60). **D**

*Jamieson, George Samuel, Ph. D., 96 Linden St., New Haven, Conn. (60). 1911. **C**

Jamieson, Thomas H., M. D., Wellington, Kans. (60). **K**

Janeway, Henry H., M. D., Riverdale-on-Hudson, New York, N. Y. (60). **K**

*Janeway, Theodore Caldwell, M. D., Professor of Medicine, Johns Hopkins University, Baltimore, Md. 1914. **K**

*Jaques, Capt. William Henry, Vice-President and General Manager, United Telephone Co., Board of Trade Building, Boston, Mass. (47). 1899. **D**

Jardine, William M., Professor of Agronomy, Kansas State Agricultural College, Manhattan, Kansas. (63). **G M**

Jarman, Joseph L., President and Professor of Chemistry, State Female Normal School, Farmville, Va. (51). **C**

Jarvis, C. F., First National Bank Building, Oakland, Cal. (66).

*Jastrow, Joseph, Ph. D., Professor of Psychology, University of Wisconsin, Madison, Wis. (35). 1887. **G H**

Jefferson, John Percival, Santa Barbara, Cal. (51). **D E H**

*Jefferson, Mark, Professor of Geography, Michigan State Normal College, Ypsilanti, Mich. (52). 1906. **E**

Jeffrey, Alexander B., M. D., 706 Kansas Ave., Topeka, Kans. (60). **K**

*Jeffrey, Edward Charles, Ph. D., Professor of Plant Morphology, Harvard University, Cambridge, Mass. (52). 1905. **G**

*Jeffries, B. Joy, M. D., 15 Chestnut St., Boston, Mass. (29). 1881. **B F K**

Jeffs, R. E., Professor of Biology, Friends University, Wichita, Kans. (61). **F G**

Jehle, R. A., Estacion Experimental Agronomico, Santiago de las Vegas, Cuba. (62). G

Jelly, Arthur Carlton, M. D., 10 Arlington St., Boston, Mass. (60). H K L

*Jenkins, Edward Hopkins, Ph. D., Director, Connecticut Agricultural Experiment Station, New Haven, Conn. (33). 1885. C M

JENKINS, GEORGE C., Abell Building, Baltimore, Md. (60).

*Jenkins, Lawrence Waters, Curator of Ethnology, Peabody Museum, Salem, Mass. (57). 1915. H

Jenkins, Olaf Pitt, State Geological Survey, Nashville, Tenn. (65). E

*Jenkins, Oliver Peebles, Ph. D., Professor of Physiology, Leland Stanford Junior University, Stanford University, Cal. (52). 1905. F K

*Jenks, Albert Ernest, Ph. D., Professor of Anthropology, University of Minnesota, Minneapolis, Minn. (50). 1902. H

Jenks, William H., M. E., Brookville, Pa. (38). D

*Jenney, Walter Proctor, Ph. D., 1727 P St., N. W., Washington, D. C. (50). 1903. E

*Jennings, Allan H., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (60). 1914. F

*Jennings, Edward Payson, E. M., P. O. Box 841, Salt Lake City, Utah. (60). 1911. D

Jennings, Fred Huntington, 1146 Boyd St., Watertown, N. Y. (57). C

Jennings, Gainor, M. D., West Milton, Ohio. (51). K

*Jennings, Hennen, 2221 Massachusetts Ave., Washington, D. C. (63). 1915. D E

*Jennings, Herbert Spencer, Ph. D., LL. D., Henry Walters Professor of Zoology, and Director, Biological Laboratory, Johns Hopkins University, Baltimore, Md. (54). 1906. F

Jennings, Rev. James J., 333 Springfield Ave., Chicago, Ill. (60). I L

Jennings, John G., 2346 West 14th St., Cleveland, Ohio. (63).

*Jennings, Otto Emery, Ph. D., Carnegie Museum, Pittsburgh, Pa. (53) 1909. G

*Jennings, Walter Louis, Ph. D., Professor of Organic Chemistry, Worcester Polytechnic Institute, Worcester, Mass. (45). 1898. C

Jennison, Harry M., Department of Botany, Montana State College of A. and M. Arts, Bozeman, Mont. (62). G

Jensen, Charles A., Bennington, Idaho. (54). G

Jensen, Christian Nephi, Ph. D., President, Brigham Young College, Logan, Utah. (64). G

*Jensen, Jens, 185 Steinway Hall Building, Chicago, Ill. (58). 1911. E F G

Jensen, Jesse P., Superintendent of Schools, Eagle Bend, Minn. (62). F

Jensen, Miss Louise, 3401 Chicago Ave., Minneapolis, Minn. (63). G

Jepson, William, M. D., 3 United Bank Building, Sioux City, Iowa. (64). K

*Jepson, Willis Linn, Ph. D., Associate Professor of Botany, University of California, Berkeley, Cal. (65). 1915. G

Jernberg, Lawrence W., 1248 East 111th St., Cleveland, Ohio. (63).

*Jessen, Karl Detlev, Ph. D., Professor of German Literature, Bryn Mawr College, Bryn Mawr, Pa. (55). 1915. **H**

Jewell, Susan Grace, Professor of Biology, Tabor College, Tabor, Iowa. (58). **F G**

Jewell, William M., Park Ridge, Ill. (58).

*Jewett, Frank Fanning, Professor of Chemistry and Mineralogy, Oberlin College, Oberlin, Ohio. (47). 1899. **C D E**

Jewett, H. S., M. D., 15 West Monument Ave., Dayton, Ohio. (63). **K**

Jewett, William Cornell, C. E., The Harvey, Avondale, Cincinnati, Ohio. (52). **D**

*Jobling, James Wesley, M. D., Professor of Pathology, Vanderbilt Medical School, Nashville, Tenn. (62). 1915. **K**

Jobson, Arthur, R. D. 3, Bucklin, Mo. (65). **D**

*Jodidi, S. L., Ph. D., U. S. Department of Agriculture, Washington, D. C. (62). 1914. **C**

*Joerg, Wolfgang L. G., 20 Sherman Ave., Yonkers, N. Y. (63). 1913. **E**

*Joffe, S. A., Mutual Life Insurance Co. of New York, 55 Cedar St., New York, N. Y. (54). 1906. **A**

*Johannsen, Albert, Ph. D., Associate Professor of Petrology, University of Chicago, Chicago, Ill. (54). 1909. **E**

*Johannsen, Oskar Augustus, Ph. D., Assistant Professor of Biology, Cornell University, Ithaca, N. Y. (54). 1913. **F**

Johansen, Erneste, M. D., Whitney Building, 133 Geary St., San Francisco, Cal. (60). **K**

*Johns, Carl O., Ph. D., 3022 Macomb St., Washington, D. C. (50). 1911. **C**

*Johnson, Aaron G., College of Agriculture, University of Wisconsin, Madison, Wis. (60). 1913. **G M**

Johnson, Albert Lincoln, C. E., care Corrugated Bar Co., Mutual Life Building, Buffalo, N. Y. (51). **D**

Johnson, Charles Eugene, Department of Zoology, University of Minnesota, Minneapolis, Minn. (58). **F**

*Johnson, Charles Morris, 731 Orchard St., Avalon, Pa. (60). 1911. **C**

*Johnson, Charles Willison, Curator, Boston Society of Natural History, Boston, Mass. (51). 1908. **F**

*Johnson, Douglas Wilson, Ph. D., Associate Professor of Geology, Columbia University, New York, N. Y. (54). 1909. **E**

*Johnson, Duncan Starr, Ph. D., Professor of Botany, Johns Hopkins University, Baltimore, Md. (54). 1906. **G**

*Johnson, Edward Carl, Kansas State Agricultural College, Manhattan, Kans. (62). 1913. **G**

Johnson, Frank Seward, M. D., 2521 Prairie Ave., Chicago, Ill. (51). **B K**

*Johnson, Herbert Parlin, Ph. D., Cedaredge, Colo. (54). 1906. **K**

Johnson, Homer Hosea, 1009 American Trust Bldg., Cleveland, Ohio. (63).

Johnson, James H., M. D., 920 West 7th St., Los Angeles, Cal. (60). **K**

Johnson, James T., M. D., 31 Washington St., Cumberland, Md. (60). **K**

Johnson, Jesse F., 756 Sherbrooke St.. West, Montreal, Canada. (58). C
Johnson, John C., 2001 Allston Way, Berkeley, Cal. (66).
Johnson, Montgomery Hunt, E. E., 41 Plant St., Utica, N. Y. (60). D
Johnson, Myrtle E., Ph. D., 201 North Euclid Ave., Pasadena, Cal. (63). F
Johnson, Orville M., Morgantown, W. Va. (64).
Johnson, Roswell Hill, Professor of Geology, University of Pittsburgh, Pittsburgh, Pa. (60). E F H
Johnson, S. Arthur, Associate Professor of Zoology, State Agricultural College, Fort Collins, Colo. (58). F
Johnson, Mrs. Seth Albert, Harriman, N. Y. (65).
*Johnson, Thomas Carskadon, Director, Virginia Truck Experiment Station, Norfolk, Va. (51). 1911. G
Johnson, William D., M. D., Batavia, N. Y. (58). A K
Johnson, William P., 8 North 6th St., Minneapolis, Minn. (62). D
Johnson, William Smythe, Ph. D., Helena, Okla. (49). H L
*Johnston, Charles Hughes, Ph. D., Professor of Secondary Education, University of Illinois, Urbana, Ill. (58). 1911. H
Johnston, Earle S., Laboratory of Plant Physiology, Johns Hopkins University, Baltimore, Md. (63). B F G
Johnston, Edward C., U. S. S. Albatross, Pacific Station, San Francisco, Cal. (65).
Johnston, Frederick Atkins, The S. S. White Dental Manufacturing Company, Prince Bay, N. Y. (60). C D
Johnston, George Ben, M. D., LL. D., 407 East Grace St., Richmond, Va. (51). K
*Johnston, John, Sc. D., Geophysical Laboratory, Washington, D. C. (64). 1914. C
*Johnston, John Black, Ph. D., Professor of Anatomy, University of Minnesota, Minneapolis, Minn. (52). 1904. F L
*Johnston, John R., Professor of Pathology, Porto Rico S. P. Experiment Station, Rio Piedras, Porto Rico. (62). 1915. G
Johnston, Thomas Jones, 149 Broadway, New York, N. Y. (50). A B D
Johnston, William A., Prince Bay, N. Y. (50). B C D
Johnstone, Augustus Ralph, M. D., 4147 Lake Ave., Chicago, Ill. (60). K
*Johonnott, Edwin Sheldon, Jr., Ph. D., Associate Professor of Physics, Rose Polytechnic Institute, Terre Haute, Ind. (50). 1904. B
Jolivette, Hally D. M., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). G
Jonas, Anna Isabel, Ph. D., 91 West Commerce St., Bridgeton, N. J. (65). E
Jones, A. Halden, M. D., 1186 West 27th St., Los Angeles, Cal. (61). K
*Jones, Adam Leroy, Ph. D., Columbia University, New York, N. Y. (52). 1905. H L
*Jones, Arthur Taber, Ph. D., Assistant Professor of Physics, Smith College, Northampton, Mass. (53). 1911. B
*Jones, Charles Hampson, M. D., 2529 St. Paul St., Baltimore, Md. (58). 1909. K

Jones, Charles Howland, 83 Brooks Ave., Burlington, Vt. (58). **C D**
Jones, Charles Landon, 63 Wall St., New York, N. Y. (57).
Jones, Charles Richardson, 317 Edward St., Fort Collins, Colo. (55). **F**
*Jones, Clement Ross, Professor of Mechanical Engineering, West Virginia University, Morgantown, W. Va. (50). 1912. **D**
Jones, Donald F., Bussey Institution, Forest Hills, Boston, Mass. (66). **G**
*Jones, Elmer Ellsworth, Ph. D., 1115 Church St., Evanston, Ill. (62). 1915. **L**
Jones, Emmett Milton, Woman's Temple, Chicago, Ill. (63).
Jones, Frank Morton, 802 Washington St., Wilmington, Del. (63).
Jones, Franklin T., 9511 Sagamore Ave., N. E., Cleveland, Ohio. (60). **C**
*Jones, Frederick Scheetz, Professor of Physics, Yale College, New Haven, Conn. (45). 1901. **B**
Jones, Hilton Ira, Head, Department of Chemistry, Dakota Wesleyan University, Mitchell, S. D. (63). **C**
Jones, Henry N., 730 Westcott St., Syracuse, N. Y. (64).
Jones, Howard E. A., 731 Clinton Place, Evanston, Ill. (60). **L**
*Jones, J. Claude, Assistant Professor of Mineralogy, University of Nevada, Reno, Nev. (61). 1914. **E**
Jones, John McKinley, Texas Agricultural Experiment Station, College Station, Texas. (65). **F**
*Jones, Lauder William, Ph. D., Professor of Chemistry, University of Cincinnati, Cincinnati, Ohio. (60). 1910. **C**
*Jones, Lewis Ralph, Sc. D., Ph. D., Professor of Plant Pathology, University of Wisconsin, Madison, Wis. (41). 1894. **G**
*Jones, Louis Cleveland, Ph. D., care Solvay Process Co., Syracuse, N. Y. (58). 1911. **C E**
*Jones, Lynds, Ph. D., Associate Professor of Animal Ecology, Oberlin College, Oberlin, Ohio. (50). 1905. **F**
*Jones, Marcus Eugene, 270 West South Temple St., Salt Lake City, Utah. (40). 1893. **E G**
Jones, Noble Wiley, Stevens Building, Portland, Oreg. (66).
Jones, Paul R., 350 California St., San Francisco, Cal. (58). **F**
Jones, Richard U., Macalester College, St. Paul, Minn. (62).
Jones, Thomas Henry, State Experiment Station, Baton Rouge, La. (64). **F**
Jones, Walter C., M. D., 2309 Sherman Ave., Evanston, Ill. (60). **K**
Jones, Walter P., Third Ave., Rome, Ga. (63). **F G**
Jones, William Henry, C. E., 315 Vine St., Leavenworth, Kans. (60). **D**
*Jones, William James, Jr., State Chemist, Agricultural Experiment Station, La Fayette, Ind. (58). 1911. **C**
*Jordan, David Starr, M. D., Ph. D., LL. D., Chancellor, Leland Stanford Junior University, Stanford University, Cal. (31). 1883. **E F G I K L**

*Jordan, Edwin Oakes, Ph. D., Professor of Bacteriology, University of Chicago, Chicago, Ill. (50). 1901. K

*Jordan, Harvey Ernest, Ph. D., Professor of Histology and Embryology, University of Virginia, Charlottesville, Va. (57). 1909. F K

Jordan, James Douglas, M. D., Madisonville, Tex. (60). K

*Jordan, Lyman Granville, Ph. D., Professor of Chemistry, Bates College, Lewiston, Me. (60). 1911. C

Jordan, R. H., Principal, Western High School, Minneapolis, Minn. (60). A

*Jordan, Whitman Howard, Sc. D., LL. D., Director, New York Agricultural Experiment Station, Geneva, N. Y. (45). 1902. I M

Joseph, Emil, 1007 Society for Savings Building, Cleveland, Ohio. (63).

Joseph, Isaac, 1827 East 82d St., Cleveland, Ohio. (63).

Joseph, Walter E., Ph. D., 550 Agricultural Building, Urbana, Ill. (65) F

*Joslin, Elliott Proctor, M. D., 81 Bay State Road, Boston, Mass. (60). 1911. K

Joyce, Clarence M., 50 East 41st St., New York, N. Y. (60). C

Juat, Francis, M. D., Raeford, N. C. (50). F K

*Juday, Chancey, River Pines, Stevens Point, Madison, Wis. (58). 1913. F

Judd, Albert Floyd, Professor of Chemistry, University of Pittsburgh Dental School, Pittsburgh, Pa. (63). C

*Judd, Charles Hubbard, Ph. D., LL. D., Professor of Psychology, University of Chicago, Chicago, Ill. (49). 1901. H I L

Judd, Horace, Associate Professor of Experimental Engineering, Ohio State University, Columbus, Ohio. (56). D

Judson, Champion Hiram, M. D., Dobbs Ferry, N. Y. (57). K

*Judson, Harry Pratt, LL. D., President, University of Chicago, Chicago, Ill. (58). 1910. L

Judson, Miss S. E., 137 Wall St., New Haven, Conn. (63).

Juettner, Otto, M. D., 628 Elm St., Cincinnati, Ohio. (57). K

*Julien, Alexis Anastay, Ph. D., South Harwich, Mass. (24). 1875. C E

Jungblut, Herman Carl, M. D., Tripoli, Iowa. (62). K

Jürgensen, Jess Christian, M. E., United Piece Dye Works, Lodi, N. J. (60). D

Just, Ernest E., 412 T St., N. W., Washington, D. C. (66). F

Justeson, Osmon, Hyrum, Utah. (64). F

Kaadt, Peter S., M. D., Scipio, Okla. (54). K

Kabell, Dr. C., 209 South State St., Chicago, Ill. (58). C

Kahl, Paul Hugo Isidor, Carnegie Museum, Pittsburgh, Pa. (50). F

*Kahlenberg, Louis, Ph. D., Professor of Physical Chemistry, University of Wisconsin, Madison, Wis. (46). 1898. B C

Kahn, Julius, 100 West 80th St., New York, N. Y. (50). C

Kahn, Otto Hermann, P. O. Box 1193, New York, N. Y. (57).

Kaliski, Maximilian S., Ph. D., care Maxim Chemical Co., 17 Battery Place, New York, N. Y. (58). **C**

Kammerer, Alfred Lewis, 738 Central Ave., Clayton, Mo. (63).

*Kammerer, Frederic, M. D., 51 East 66th St., New York, N. Y. (60). 1911. **K**

Kammerer, Jacob Andrae, 87 Jameson Ave., Toronto, Canada. (50). **C D**

*Kane, Elisha Kent, Kushequa, Pa. (54). 1906. **D**

Kane, R. Emmet, M. D., 312 Humboldt Building, St. Louis, Mo. (58). **K**

Kane, Thomas Francis, Castleton Hotel Park, New Brighton, N. Y. (58). **A**

Kantor, William L., M. D., 386 East 143d St., New York, N. Y. (60). **K**

Kaplan, Harry, M. E., 1451 Wilkins Ave., Bronx, New York, N. Y. (57). **D I**

*Karapetoff, Vladimir, E. E., Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. (60). 1911. **D**

Karnay, W. W., 33 Appraisers Building, San Francisco, Cal. (65).

Karrer, Enoch, 3101 Passyunk Ave., Philadelphia, Pa. (63). **B**

*Karsner, Howard Thomas, M. D., Professor of Pathology, Western Reserve University, Cleveland, Ohio. (64). 1915. **K**

Karsten, Adrian C., M. D. Horicon, Wis. (58). **K**

*Kasner, Edward, Ph. D., Professor of Mathematics, Barnard College, Columbia University, New York, N. Y. (52). 1904. **A**

Kast, Ludwig, M. D., 771 Madison Ave., New York, N. Y. (62). **K**

Katsuki, I., M. D., Honolulu, Hawaii. (60). **K**

*Katz, Frank J., U. S. Geological Survey, Washington, D. C. (60). 1915. **E**

Kaufman, Mrs. Una Libby, 135 Central Park, West, New York, N. Y. (62). **H L**

Kaufmann, Franklin John, M. D., 311 West Genesee St., Syracuse, N. Y. (60). **K**

Kaufmann, Harry J., Professor of Physics and Biology, High School for Boys, Reading, Pa. (65). **B F**

Kaufmann, Jacob, M. D., 52 East 58th St., New York, N. Y. (60). **K**

Kautz-Eulenberg, Miss P. R., 12 East 30th St., New York, N. Y. (61).

Kavanagh, Thomas J., Superintendent, American Sugar Refining Co., Jersey City, N. J. (56). **C**

Kawin, Charles C., 417 So. Dearborn St., Chicago, Ill. (58). **C**

*Kay, George Frederick, Professor of Economic Geology and Petrology, State University of Iowa, Iowa City, Iowa. (57). 1910. **E**

*Kearfott, William Dunham, Montclair, N. J. (54). 1915. **F**

*Kearney, Thomas Henry, U. S. Department of Agriculture, Washington, D. C. (47). 1902. **G**

Keating, Peter McCall, M. D., "Sunnyside," Wawa, Pa. (65). **K**

*Kebler, Lyman Frederic, M. D., U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

Keckley, Clyde U., P. O. Box 3, Wayne, Nebr. (63).

Keefer, William E., N. Y. State College of Agriculture, Ithaca, N. Y. (65). **G**

*Keen, William Williams, M. D., Ph. D., LL. D., 1729 Chestnut St., Philadelphia, Pa. (60). 1910. **K**

Keenan, George L., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (65). **C G**

*Keep, William John, E. M., 753 Jefferson Ave., Detroit, Mich. (37). 1897. **D**

Keffer, Frederic, M. E., Greenwood, B. C., Canada. (60). **D**

Keilholtz, Pierre Otis, Consulting Engineer, Continental Trust Building, Baltimore, Md. (50). **D**

Keim, Edward Tudor, E. E., Superintendent, American District Tel. Co., Denver, Colo. (50). **D E F**

*Keith, Arthur, U. S. Geological Survey, Washington, D. C. (60). 1910. **E**

Keith, John Meiggs, San Jose, Costa Rica, C. A. (54). **G I**

*Keith, Miss Marcia A., 116 Nassau St., New York, N. Y. (46). 1906. **A B D**

*Keith, Simeon Curtis, Jr., 72 South Market St., Boston, Mass. (60). 1913. **F**

Keitt, George Wannamaker, 803 State St., Madison, Wis. (62). **G**

*Keitt, Thomas Ellison, Professor of Chemistry, South Carolina Agricultural Experiment Station, Clemson College, S. C. (60). 1914. **C**

*Keller, Edward, Ph. D., P. O. Box 363, Perth Amboy, N. J. (50). 1904. **C**

Keller, Frederick C., M. D., 255 West 90th St., New York, N. Y. (60). **K**

Keller, George J., 191 Avon Ave., Newark, N. J. (58). **F**

Keller, Homer L., 623 West 36th St., Los Angeles, Cal. (65).

*Kellerman, Karl Frederic, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. **G**

Kellerman, Miss Maude, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). **G**

Kelley, Frank J., College of Agriculture, University of Wisconsin, Madison, Wis. (61). **F**

*Kelley, George Leslie, 40 East Tulpehocken St., Philadelphia, Pa. (58). 1911. **C**

Kelley, Mrs. Joanna R., Devil's Lake, N. D. (65).

Kelley, Morriss De Witt, M. D., R. F. D. 1, La Grange, Ky. (60). **K**

*Kelley, Walter Pearson, Ph. D., Professor of Agricultural Chemistry, Citrus Experiment Station, Riverside, Cal. (58). 1911. **C F M**

*Kellicott, William Erskine, Ph. D., Professor of Biology, Goucher College Baltimore, Md. (57). 1909. **F**

Kellogg, Edward Leland, M. D., 48 West 51st St., New York, N. Y. (60). **K**

Kellogg, John Harvey, M. D., Superintendent, Battle Creek Sanitarium, Battle Creek, Mich. (24). **C H I K**

Kellogg, R. S., 925 Lumber Exchange, Chicago, Ill. (66). **M**

*Kellogg, Vernon Lyman, Professor of Entomology, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. **F H**

*Kelly, Edward G., U. S. Entomological Laboratory, Wellington, Kans. (55). 1913. **F**

Kelly, Edward H., M. D., Ironwood, Mich. (60). **K**

Kelly, F. M., M. D., Needles, Cal. (60). **K**

*Kelly, Harry McCormick, LL. D., Professor of Biology, Cornell College, Mt. Vernon, Iowa. (60). 1913. **F**

Kelly, Henry A., 33 Central Park, West, New York, N. Y. (60). **F**

*Kelly, Howard Atwood, M. D., LL. D., 1418 Eutaw Place, Baltimore, Md. (60). 1910. **K**

Kelly, John Forrest, Ph. D., E. E., 284 West Housatonic St., Pittsfield, Mass. (50). **D**

*Kelly, William, E. M., General Manager, Penn Iron Mining Co., Vulcan, Mich. (50). 1915. **D E**

Kemble, Rev. Duston, 1426 Winchester Ave., Lakewood, Ohio. (63).

*Kemp, George Theophilus, M. D., Ph. D., 8 West 25th St., Baltimore, Md. (52). 1906. **K**

*Kemp, James Furman, Sc. D., Professor of Geology, Columbia University, New York, N. Y. (36). 1888. **E**

Kempf, E. J., Government Hospital for the Insane, Washington, D. C. (66).

Kempster, Harry L., Assistant Professor of Poultry Husbandry, College of Agriculture, Columbia, Mo. (64). **G**

Kempton, Charles Walter, E. M., 42 Broadway, New York, N. Y. (54). **E**

Kendall, Hugh F., E. M., General Manager, N. Y. State Steel Co., Virginia, Minn. (50). **D E**

*Kendall, William Converse, M. D., U. S. Bureau of Fisheries, Washington, D. C. (52). 1906. **F K L**

*Kendrick, Arthur, 45 Hunnewell Ave., Newton, Mass. (45). 1897. **B**

*Kenerson, William Herbert, M. E., Professor of Mechanical Engineering, Brown University, Providence, R. I. (60). 1915. **D**

Kennard, Earle H., Ph. D., Physical Laboratory, University of Minnesota, Minneapolis, Minn. (65). **B**

Kennedy, Clarence H., 549 Cowper St., Palo Alto, Cal. (63).

Kennedy, George Golding, M. D., Readville, Mass. (40). **E G K**

KENNEDY, HARRIS, M. D., 286 Warren St., Roxbury, Mass. (40). **E F K**

Kennedy, Jeremiah Joseph, C. E., 52 Broadway, New York, N. Y. (60). **D**

Kennedy, Willard J., Professor of Animal Husbandry, Iowa State College, Ames, Iowa. (61).

*Kennelly, Arthur Edwin, Sc. D., Director, Research Division, Department of Electrical Engineering, Harvard University, Cambridge, Mass. (50). 1901. **A B C**

Kenney, Miss C. Belle, Quincy Mansion School, Wollaston, Mass. (58). **A B C E L**

Kenson, Charles, 160 Fifth Avenue, New York, N. Y. (65).
Kent, Grace Helen, Ph. D., Sterling, Mass. (63). **H**
Kent, James Martin, M. E., Department of Steam and Electricity, Manual Training High School, Kansas City, Mo. (50). **B D L**
*Kent, Norton Adams, Ph. D., Professor of Physics, Boston University, Boston, Mass. (50). 1906. **A B**
*Kent, William, Sc. D., 64 Orange Road, Montclair, N. J. (26). 1881. **D L**
Kenyon, William Houston, 61 Broadway, New York, N. Y. (57). **B I L**
*Kepner, William Allison, Ph. D., Professor of Biology, University of Virginia, Charlottesville, Va. (63). 1915. **F**
*Keppel, Frederick Paul, Secretary, Columbia University, New York, N. Y. (51). 1915. **L**
*Keppel, Herbert G., Ph. D., Professor of Mathematics, University of Florida, Gainesville, Fla. (60). 1911. **A**
*Kern, Frank Dunn, Ph. D., Professor of Botany, Pennsylvania State College, State College, Pa. (54). 1909. **G**
Kern, John H., M. D., 1317 Madison St., St. Louis, Mo. (53). **K**
*Kerr, Abram Tucker, M. D., Professor of Anatomy, Cornell University, Ithaca, N. Y. (52). 1906. **F K**
Kerr, Charles Henry, Director, Research Laboratory, Pittsburgh, Pa. (58). **C E**
Kerr, Henry, 1652 N St., Fresno, California. (61). **L**
Kerr, Miss Josephine E., North Market St., Urbana, Ill. (61).
*Kerr, William Jasper, Sc. D., President, Oregon State Agricultural College, Corvallis, Oregon. (52). 1906. **A**
*Kershner, Jefferson E., Ph. D., 445 West Chestnut St., Lancaster, Pa. (29). 1883. **C E**
Kesler, John Louis, Professor of Biology, Baylor University, Waco, Texas. (51). **F G K**
*Kester, Frederick Edward, Ph. D., Professor of Physics, University of Kansas, Lawrence, Kan. (48). 1906. **B**
Ketcham, Valentine Odell, C. E., Gurley Road, Shippan Point, Stamford, Conn. (65). **D**
*Ketchum, Milo Smith, C. E., Dean, College of Engineering and Professor of Civil Engineering, University of Colorado, Boulder, Colo. (58). 1911. **A D L**
Kew, W. L. W., 2425 Le Conte Ave., Berkeley, Cal. (66).
*Key, Mrs. Wilhelmine E., Ph. D., State Training School, Polk, Pa. (62). 1913. **F**
*Keyes, Charles Rollin, Ph. D., E. M., 944 Fifth Ave., Des Moines, Iowa. (58). 1910. **E**
*Keyser, Cassius Jackson, Ph. D., Head, Department of Mathematics, Columbia University, New York, N. Y. (50). 1901. **A**
Keyser, R. Brent, Keyser Building, Baltimore, Md. (60).
Keyte, I. Allen, Salida, Colo. (60). **A C**
Khuon, Edwin, M. D., 1927 Central Ave., Cincinnati, Ohio. (60). **K**

*Kidder, Albert Franklin, Professor of Agronomy, A. and M. College, Louisiana State University, Baton Rouge, La. (58). 1911. **E G**

KIDDER, NATHANIEL T., Milton, Mass. (60).

Kiefer, Francis, U. S. Forest Service, Harrison, Ark. (63). **G M**

Kier, Samuel Martin, E. E., Oliver Building, Pittsburgh, Pa. (60). **D**

Kilby, Clinton Maury, Ph. D., College Park, Va. (63). **A B**

Kildee, H. H., Associate Professor of Animal Husbandry, Iowa State College, Ames, Iowa. (62). **M**

*Kilgore, Benjamin Wesley, State Chemist, North Carolina Department of Agriculture, Raleigh, N. C. (52). 1906. **C**

*Kimball, Arthur Lalanne, Ph. D., Professor of Physics, Amherst College, Amherst, Mass. (50). 1901. **B**

Kimball, Edwin Boyce, E. M., 284 Mountain Ave., Piedmont Station, Oakland, Cal. (50). **D E**

Kimball, James Henry, U. S. Weather Bureau, Richmond, Va. (51). **A B E**

Kimball, Sumner I., General Superintendent, Coast Guard, U. S. Treasury Department, Washington, D. C. (49). **H I**

*Kincaid, Trevor, Professor of Zoology, University of Washington, Seattle, Wash. (60). 1914. **F**

*Kindle, Edward Martin, Ph. D., Victoria Museum, Ottawa, Canada. (50). 1908. **E**

*King, Arthur Scott, Ph. D., Superintendent, Physical Laboratory, Mt. Wilson Solar Observatory, Pasadena, Cal. (60). 1910. **B**

*King, Charlotte M., Iowa Agricultural Experiment Station, Ames, Iowa. (62). 1915. **G**

*King, Cyrus Ambrose, Ph. D., 387 East 5th St., Brooklyn, N. Y. (50). 1904. **G**

*King, Edward Skinner, Harvard College Observatory, Cambridge, Mass. (60). 1913. **A B**

King, H. D., Inspector, 6th Light-House District, Charleston, S. C. (62).

*King, Helen Dean, Ph. D., Assistant Professor of Embryology, Wistar Institute of Anatomy, Philadelphia, Pa. (54). 1908. **F**

*King, Henry Churchill, D. D., LL. D., President, Oberlin College, Oberlin, Ohio. (63). 1914. **L**

King, Vernon, Wellington, Kansas. (64).

*King, W. F., Chief Astronomer, Dominion Observatory, Ottawa Canada. (55). 1908. **A**

*Kingsbury, Albert, M. E., 219 Stratford Ave., Pittsburgh, Pa. (43). 1898. **D**

*Kingsbury, Benjamin Freeman, M. D., Ph. D., Professor of Histology and Embryology, Cornell University, Ithaca, N. Y. (45). 1899. **F K**

*Kingsbury, Joseph T., President and Professor of Chemistry, University of Utah, Salt Lake City, Utah. (57). 1909. **C**

*Kingsley, John Sterling, Sc. D., Professor of Zoology, University of Illinois, Urbana, Ill. (52). 1904. **F**

Kinner, Hugo, M. D., 1103 Rutger St., St. Louis, Mo. (21). **F H K**

KINNEY, FRANCIS S., The Essex, New York, N. Y. (57).

Kinney, Frank F., E. E., Capital Electrical Engineering Co., Lansing, Mich. (60). **D**

Kinney, J. P., Indian Office, Washington, D. C. (66). **M**

*Kinnicut, Francis Parker, M. D., 39 East 35th St., New York, N. Y. (57). 1909. **K**

KINSEY, OLIVER P., Vice-President, Valparaiso University, Valparaiso, Ind. (58). **I**

Kinsler, John H., U. S. Department of Agriculture, Austwell, Texas. (52). **G**

*Kinsley, Carl, E, E. Associate Professor of Physics, University of Chicago, Chicago, Ill. (47). 1903. **B**

Kinsley, M. H., School 1, West Hoboken, N. J. (60). **L**

Kinsman, Arthur D., Ph. D., 80 County Road, Ipswich, Mass. (66). **A**

Kipper, H. Brunswick, Ph. D., care Solvay Process Co., Syracuse, N. Y. (60). **C**

Kirby, Gustavus Town, 2 Wall St., New York, N.Y. (54). **B D**

Kirby, I. Henry, C. E., Roslyn, N. Y. (60). **D**

Kirchner, Walter C. G., M. D., 508 Metropolitan Building, St. Louis, Mo. (64). **K**

Kirchner, William H., Professor of Geometry, University of Minnesota, Minneapolis, Minn. (62). **A D**

*Kirk, Charles Townsend, Ph. D., University of New Mexico, Albuquerque, N. M. (61). 1911. **E**

Kirk, Edward Cameron, D. D. S., Sc. D., Dean of the Faculty of Dentistry, University of Pennsylvania, Philadelphia, Pa. (54).

*Kirk, Edwin, 2015 G St., N. W., Washington, D. C. (57). 1911. **E F**

KIRKHAM, STANTON DAVIS, Canandaigua, N. Y. (61).

*Kirkham, William Barri, Ph. D., Department of Biology, Yale University, New Haven, Conn. (60). 1913. **F**

Kirkland, Archibald, 78 High St., Irvine, Ayrshire, Scotland. (56). **C**

Kirkland, Burt P., Professor of Forestry, University of Washington, Seattle, Wash. (66). **M**

*Kirkpatrick, Edwin Asbury, State Normal School, Fitchburg, Mass. (49). 1905. **L**

Kirkpatrick, Samuel, M. D., Parish Building, Selma, Ala. (51). **K**

Kirkpatrick, William F., Connecticut Agricultural College, Storrs, Conn. (64). **F**

*Kirkwood, Joseph Edward, Ph. D., Professor of Botany and Forestry, University of Montana, Missoula, Mont. (51). 1905. **G M**

*Kissell, Mary Lois, 417 West 120th St., New York, N. Y. (58). 1913. **H**

*Kite, George Lester, M. D., Ph. D., Henry Phipps Institute, University of Pennsylvania, Philadelphia, Pa. (60). 1915. **F**

*Kite, Miss Rebecca, High School, Jamaica Plain, Mass. (61). 1915. **F**

Kitsee, Isador, E. E., 209 Walnut Place, Philadelphia, Pa. (58). **D**
Kittelberger, Arthur S., 1527 Mars Ave., Lakewood, Ohio. (63). **C**
Kittredge, Harvey Gaylord, P. O. Box 905, Dayton, Ohio. (58). **C**
Klamp, Augustus J., E. M., Drawer 1, Rhyolite, Nev. (58). **D**
Klaus, Carl F., 2209 West 22d St., Chicago, Ill. (58).
Kleckner, Martin Ezra, Professor of Chemistry and Geology, Heidelberg University, Tiffin, Ohio. (64). **C E**
*Klein, Arthur Warner, M. E., Associate Professor of Mechanical Engineering, Lehigh University, South Bethlehem, Pa. (60). 1915. **D**
Klein, Edward Nichols Emil, 135 14th St., College Point, N. Y. (56). **C G**
*Kleiner, Israel Simon, Ph. D., Rockefeller Institute for Medical Research, New York, N. Y. (57). 1915. **C K**
Klepetko, Frank, E. M., 42 Broadway, New York, N. Y. (50). **D**
Kletzsch, Gustave A., M. D., 453 Cass St., Milwaukee, Wis. (51). **K**
Klie, G. H. Charles, M. D., 5100 North Broadway, St. Louis, Mo. (39). **C F K**
Kligler, Israel Jacob, 824 East 165th St., Bronx, New York, N. Y. (63). **F K**
Klinck, Leonard S., College of Agriculture, University of British Columbia, Vancouver, B. C., Canada. (66). **M**
Kline, Irvin Eugene, Blair Academy, Blairstown, N. J. (58). **A B L**
Kline, Ivan K., Myerstown High School, Myerstown, Pa. (65).
*Kline, Linus Ward, Ph. D., Head, Department of Psychology and Education, State Normal School, Duluth, Minn. (62). 1915. **L**
Klipphahn, Ernest O. E., E. E., Pike, Cal. (60). **D**
*Klopsteg, Paul E., University of Minnesota, Minneapolis, Minn. (64). 1915. **B**
*Klotz, Oskar, M. D., Professor of Pathology and Bacteriology, University of Pittsburgh, Pittsburgh, Pa. (62). 1915. **K**
*Klotz, Otto Julius, LL. D., 437 Albert St., Ottawa, Canada. (38). 1889. **A B**
Kluegel, Charles Henry, C. E., 1507 Alexander St., Honolulu, Hawaii. (60). **D**
*Knab, Frederick, U. S. National Museum, Washington, D. C. (53). 1914. **F**
Knapp, Arthur, Houma, La. (61).
Knapp, E. V., M. D., St. Luke's Hospital, San Francisco, Cal. (66). **K**
*Knapp, Hon. Martin Augustus, LL. D., Southern Building, Washington, D. C. (52). 1904. **I**
Knapp, Rudolf Ernest, 363 Hubbard Ave., Detroit, Mich. (65). **G**
*Knaus, Warren, McPherson, Kans. (58). 1914. **F**
*Kneeland, Frederick Revell, Massachusetts Institute of Technology Boston, Mass. (58). 1911. **B C**
*Knight, Charles Mellen, Sc. D., 129 South Union St., Akron, Ohio. (29). 1904. **B C**

*Knight, Lee Irving, Hill Botanical Laboratory, University of Chicago, Chicago, Ill. (60). 1911. G

Knight, Lucian Lamar, State Historian, Atlanta, Ga. (64).

*Knipp, Charles Tobias, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (46). 1900. B

Knoll, Lloyd Monroe, 3262 Chestnut St., Philadelphia, Pa. (61).

*Knopf, Adolph, Ph. D., U. S. Geological Survey, Washington, D. C. (62). 1913. E

*Knopf, S. Adolphus, M. D., 16 West 95th St., New York, N. Y. (57). 1909. K

*Knower, Henry McElderry, Ph. D., Professor of Anatomy, Medical College, University of Cincinnati, Cincinnati, Ohio. (52). 1905. F K

*Knowlton, Ansel A., Professor of Physics, Reed College, Portland, Oregon. (60). 1911. B

*Knowlton, Frank P., M. D., Professor of Physiology, College of Medicine, Syracuse University, Syracuse, N. Y. (58). 1911. K

Knowlton, John G. W., M. D., Exeter, N. H. (60). K

Knox, Miss Alice A., 84 Cornelia St., Utica, N. Y. (60). G

Knox, Francis Henry, E. E., Spartanburg, S. C. (50). A B C D

Knox, Henry Hobart, E. M., 82 Beaver St., New York, N. Y. (50). D E

Knox, James H. M., Jr., M. D., 211 Wendover Road, Station W, Baltimore, Md. (60). K

*Knudson, Lewis, Ph. D., Department of Plant Physiology, Cornell University, Ithaca, N. Y. (62). 1915. G

Knupp, Noah D., High School, Santa Monica, Cal. (62). G

Knuth, Paul W., Professor of Psychology, German College, Dubuque, Iowa. (64). H L

*Kober, George Martin, M. D., LL. D., Professor of Hygiene, Georgetown University, Washington, D. C. (40). 1896. E K

Kober, Philip Adolph, Hastings upon Hudson, N. Y. (65). C K

Koch, Ernest Herman, Jr., 874 South 15th St., Newark, N. J. (58). A D L

Koch, Fred Conrad, Ph. D., Assistant Professor of Physiological Chemistry, University of Chicago, Chicago, Ill. (62). C

Koch, Julius Arnold, Ph. D., 28 Arlington Ave., Pittsburgh, Pa. (58). B C K

Koch, Miss Mathilde, U. S. Public Health Service, Washington, D. C. (65). F K

Koenig, Adolph, M. D., 1111 Westinghouse Building, Pittsburgh, Pa. (50). F G K

Koessler, Karl Konrad, M. D., Assistant Professor of Medicine, Rush Medical College, Chicago, Ill. (65). K

*Kofoid, Charles Atwood, Ph. D., Professor of Zoology, University of California, Berkeley, Cal. (48). 1899. F

Kohler, Henry L., 2315 Ann Ave., St. Louis, Mo. (60). C

Kohlsaat, John E. C., 1739 Eastern Ave., Cincinnati, Ohio. (58). E F G

Kolbenheyer, Frederick, M. D., 2006 Lafayette Ave., St. Louis, Mo. (51). **K**

Kong, Dr. S. T., E. M., Gen. Mgr., Imperial Smelting Works, Changsha, China. (61). **D**

*Kornhauser, Sidney I., Wurzburg Zoological Institute, Wurzburg, Germany. (61). 1915. **F**

Korssell, Claus F. P., M. D., 5502 Indiana Ave., Chicago, Ill. (60). **K**

Kostir, Wencel J., Ohio State University, Columbus, Ohio. (65). **F G**

Kotz, Adam L., M. D., High and Reeder Sts., Easton, Pa. (58). **K**

Koues, Miss Elizabeth L., 211 West 102d St., New York, N. Y. (41). **I**

*Kovarik, Alois Francis, Ph. D., Assistant Professor of Physics, University of Minnesota, Minneapolis, Minn. (58). 1911. **B**

*Kower, Hermann, C. E., University of California, Berkeley, Cal. (58). 1915. **D**

*KRAEMER, HENRY, Ph. D., 145 North 10th St., Philadelphia, Pa. (57). 1901. **G**

*Kraus, Edward Henry, Ph. D., University of Michigan, Ann Arbor, Mich. (50). 1906. **C E**

Krause, Otto H., Prospect Ave., Hackensack, N. J. (50). **B C D E**

*Krauss, Frederick G., New Era Homestead Farms, Haiku, Maui, Hawaii. (58). 1911. **G M**

Krauss, Victor P., 2847 Bainbridge Ave., Bedford Park, New York, N. Y. (60). **C**

*Krécsy, Béla, Ph. D., vi Bulyovsky u. 26, Budapest, Hungary. (41). 1914. **C L**

*Kremers, Edward, Ph. D., 1720 Vilas St., Madison, Wis. (47). 1901. **C**

Krenerick, H. Clyde, Department of Physics, Milwaukee High School, Milwaukee, Wis. (62). **B**

Kress, George H., M. D., 245 Bradbury Building, Los Angeles, Cal. (66).

Kress, Otto, 438 West 116th St., New York, N. Y. (58). **C**

*Kressmann, Frederick William, Forest Products Laboratory, U. S. Forest Service, Madison, Wis. (60). 1915. **C M**

Kretz, Walter C., Ph. D., 1115 West State St., Trenton, N. J. (54). **A D**

*Kribs, Herbert Guy, Ph. D., Zoological Laboratory, University of Pennsylvania, Philadelphia, Pa. (53). 1913. **F**

*Kroeber, Alfred L., Ph. D., Affiliated Colleges, San Francisco, Cal. (47). 1901. **H**

Kroeck, Louis Samuel, College Park, San José, Cal. (60).

*Krohn, William Otterbein, M. D., Ph. D., Heyworth Building, Chicago, Ill. (60). 1911. **K**

Krotaszyner, Martin, M. D., 999 Sutter St., San Francisco, Cal. (65). **K**

Krumbhaar, Edward Bell, M. D., St. Martin's, Philadelphia, Pa. (64). **K**

Kudlich, Herman C. 233 Broadway, New York, N. Y. (57).

Kuehne, John Matthias, Adjunct Professor of Physics, University of Texas, Austin, Texas. (58). **B**

Kuh, Sydney, M. D., 30 North Michigan Boulevard, Chicago, Ill. (54). **H K**

*Kummel, Henry Barnard, Ph. D., State Geologist of New Jersey, Trenton, N. J. (58). 1911. **E**

Kummer, Frederic Arnold, C. E., President, United States Wood Preserving Co., 29 Broadway, New York, N. Y. (51). **D**

*Kunkel, Beverly Waugh, Ph. D., Associate Professor of Zoology, Beloit College, Beloit, Wis. (55). 1909. **F**

*Kuntz, Albert, Assistant Professor of Biology, School of Medicine, St. Louis University, St. Louis, Mo. (63). 1914. **F**

*Kunz, George Frederick, Sc. D., Ph. D., 601 Cathedral Parkway, New York, N. Y. (29). 1883. **E H I**

*Kunze, Edward Joseph, M. E., Professor of Mechanical Engineering, Oklahoma A. and M. College, Stillwater, Okla. (57). 1910. **B D L**

Kupfer, Elsie M., M. D., 44 West 97th St., New York, N. Y. (60). **G K**

*Kutchin, Mrs. Harriet Lehmann, The Maplewood, Green Lake, Wis. (58). 1913. **K**

KWANG, KWONG YUNG, D. Eng., Lincherg Mines, Lincherg, via Peking, North China. (64). **C D E**

*Lachman, Arthur, Ph. D., 1926 Lake St., San Francisco, Cal. (50). 1901. **C D K**

Lacy, Burritt Samuel, Ph. D., Sewaren, N. J. (63). **C**

*Ladd, Edwin Fremont, LL. D., Professor of Chemistry, North Dakota Agricultural College, Fargo, N. D. (36). 1889. **C**

*Ladd, George Trumbull, D. D., LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (60). 1911. **H**

Ladd, James B., 1011 Chestnut St., Philadelphia, Pa. (54). **D**

*La Flesche, Francis, 214 First St. S. E., Washington, D. C. (33). 1885. **H**

Lagai, George, Ph. D., 1072 South St., Rochester, N. Y. (58). **C F G K L**

Lagergren, J. T., University of Toronto, Toronto, Canada. (65).

*Lahee, Frederick H., Assistant Professor of Geology, Massachusetts Institute of Technology, Boston, Mass. (60). 1915. **E**

Lahey, Frank H., M. D., 827 Boylston St., Boston, Mass. (60). **K**

Laird, Clinton Nevius, Professor of Chemistry, Canton Christian College, Canton, China. (62). **C**

*Laird, Elizabeth Rebecca, Ph. D., Professor of Physics, Mount Holyoke College, South Hadley, Mass. (56). 1906. **B**

Laird, George A., E. M., 98 Raglan St., Mosman, Sydney, N. S. W. (60). **D**

Lake, William Mac., M. D., Silver City, New Mexico. (60). **K**

Lakey, Roland Treiber, 17 Fulton Ave., Rochester, N. Y. (60). **C**

*Lamb, Daniel Smith, M. D., Professor of Anatomy, Howard University, Washington, D. C. (40). 1894. **H K**

Lamb, George Franklin, Professor of Biology, Mt. Union College, Alliance, Ohio. (57). **F**

Lamb, Robert Scott, M. D., The Cecil, 15th and L Sts., Washington, D. C. (60). **K**

Lamb, William Alfred, C. E., U. S. Geological Survey, Helena, Mont. (60). **D E**

*Lambert, Alexander, M. D., 43 East 72d St., New York, N. Y. (59). 1908. **K**

Lambert, Avery E., Ph. D., Professor of Biology, Middlebury College, Middlebury, Vt. (66). **F**

Lambert, L. F., Foot of Payne Ave., St. Paul, Minn. (62).

*Lambert, Preston Albert, Professor of Mathematics, Lehigh University, South Bethlehem, Pa. (41). 1896. **A**

*Lambert, Samuel Waldron, M. D., Dean, College of Physicians and Surgeons, New York, N. Y. (57). 1908. **K**

Lampard, Henry, 51 Hallowell St., Westmont, Quebec, Can. (40). **C D E**

*Lampland, Carl Otto, Lowell Observatory, Flagstaff, Arizona. (62). 1913. **A**

Lamson, George H., Jr., Professor of Zoology, Conn. Agricultural College, Storrs, Conn. (65). **F**

Lamson, William M., Ph. D., Municipal Building, New York, N. Y. (62). **D**

Lamson-Scribner, Prof. Frank, U. S. Department of Agriculture, Washington, D. C. (63). **G**

Lanahan, Joseph A., M. D., 161 Hamilton St., Albany, N. Y. (60). **K**

Lancaster, Walter Beckett, M. D., 522 Commonwealth Ave., Boston, Mass. (51). **K**

Lance, Harold B., 2768 Bainbridge Ave., Bronx, New York, N. Y. (57). **D F G**

Lancefield, Donald E., Reed College, Portland, Oregon. (65).

*Land, William Jesse Goad, Ph. D., Assistant Professor of Botany, University of Chicago, Chicago, Ill. (52). 1904. **G**

*Landacre, Francis Leroy, Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (53). 1906. **F**

*Landes, Henry, Professor of Geology, University of Washington, Seattle, Wash. (51). 1903. **E**

*Landis, William Weidman, Sc. D., Professor of Mathematics, Dickinson College, Carlisle, Pa. (50). 1906. **A**

Landman, Otto, M. D., 230 Michigan St., Toledo, Ohio. (60). **K**

Landon, Francis G., Mansewood, Staatsburg, N. Y. (50).

*Landreth, Olin Henry, C. E., Professor of Engineering, Union University, Schenectady, N. Y. (28). 1883. **D**

*Landrum, Robert Dallas, 75 Strathmore Ave., Cleveland, Ohio. (58). 1911. **C D L**

*Lane, Alfred Church, Ph. D., Professor of Geology and Mineralogy, Tufts College, Tufts College, Mass. (50). 1902. **E**

Lane, Earl Carlton, H. S. P. A. Experiment Station, Honolulu, Hawaii. (60). **C**

*Lane, Henry Higgins, Ph. D., Professor of Zoology, University of Oklahoma, Norman, Okla. (55). 1910. F G

Lane, J. Harold, United Drug Co., 93 Leon St., Boston, Mass. (60). C

Lang, George, Jr., 3601 Salena St., St. Louis, Mo. (64).

LANG, JAMES SHERBURNE, 35 Rutland Square, Boston, Mass. (64).

Lang, John Frederick, M. D., 933 West Fayette St., Baltimore, Md. (60). K

*Langenbeck, Karl, 1625 Hobart St., Washington, D. C. (39). 1896. C

*Langfeld, Herbert Sidney, Harvard University, Cambridge, Mass. (63). 1915. H L

Langguth, J. William, 1828 Arthur Ave., Bronx, New York, N. Y. (60). A

Langland, James, *Daily News*, Chicago, Ill. (58).

Langley, O. Velpeau, M. D., 514 Avenue A., Opelika, Ala. (60). K

*Langmann, Gustav A., M. D., 121 West 57th St., New York, N. Y. (39). 1907. G K

*Langmuir, Arthur C., Ph. D., 9 Van Brunt St., Brooklyn, N. Y. (63). 1915. C

*Langmuir, Irving, Ph. D., Gen. Electric Co., Schenectady, N. Y. (60,) 1911. C

*Langsdorf, Alexander Suss, Dean, Schools of Engineering and Architecture, and Professor of Electrical Engineering, Washington University, St. Louis, Mo. (50). 1904. B D

*Langworthy, Charles Ford, Ph. D., Sc. D., U. S. Department of Agriculture, Washington, D. C. (56). 1908. C

Lankford, Henry M., M. D., Leavenworth, Kans. (60). K

Lankford, John S., M. D., San Antonio, Texas. (60). K

Lantz, Miss Willie A., Teacher of Science, Woman's College, Frederick, Md. (54). F G

Lapham, Jesse Erwin, U. S. Department of Agriculture, Washington, D. C. (62). C G

Lapham, Macy H., U. S. Department of Agriculture, Washington, D. C. (62). G

Laramy, Robert Edward, City Superintendent, Department of Public Instruction, Easton, Pa. (51). E H

Larchar, Arthur B., Great Works, Me. (58). C

*LARKIN, EDGAR LUCIEN, Director, Lowe Observatory, Echo Mountain, Cal. (51). 1903. A

Larkin, John Charles, M. D., Hillsboro, Ohio. (54). K

Larned, Charles W., 1327 Park Ave., Baltimore, Md. (60).

Larned, S. J., 230 West Washington St., Chicago, Ill. (58).

La Roque, George Paul, M. D., Associate Professor of Surgery, Medical College of Virginia, Richmond, Va. (64). K

Larrabee, Austin P., Professor of Biology, Fairmont College, Wichita, Kansas. (54). F

Larrimer, Walter, U. S. Entomological Laboratory, Wellington, Kansas. (65). F

Larsell, Olof, 940 B St., McMinnville, Oregon. (65).
*Larsen, Esper S., Jr., Bacon Hall, University of California, Berkeley, Cal. (63). 1913. E
Larsen, L. David, H. S. P. Experiment Station, Honolulu, Hawaii. (60). G
Larson, Ole S., care Scandinavian American Bank, Seattle, Wash. (58).
*La Rue, George Roger, Ph. D., Professor of Zoology, University of Michigan, Ann Arbor, Mich. (63). 1915. F
*Lasché, Alfred J. M., 629 28th St., Milwaukee, Wis. (60). 1910. C
Lascoff, J. Leon, 1223 Lexington Ave., New York, N. Y. (63).
Lathrop, Bryan, 1675 Old Colony Building, Chicago, Ill. (58).
*Lathrop, Elbert C., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (63). 1914. G
Latimer, Homer Barker, Professor of Zoology, Nebraska Wesleyan University, Lincoln, Nebr. (61). F
Latta, John Milton, M. D., 115 North Lawrence Ave., Wichita, Kans. (54). H I K
Lauder, George, E. M., 7403 Penn Ave., Pittsburgh, Pa. (50). D
Laufer, Berthold, Ph. D., Field Museum of Natural History, Chicago, Ill. (63). F
Laughlin, Charles E., M. D., Superintendent, South Indiana Hospital for Insane, Evansville, Ind. (58). D H I K
*Laughlin, Harry Hamilton, Cold Spring Harbor, L. I., N. Y. (60). 1915. F
*Lauman, George Nieman, Professor of Rural Economy, Cornell University, Ithaca, N. Y. (50). 1915. I L M
*Laurens, Henry, Zoological Laboratory, Yale University, New Haven, Conn. (61). 1915. F
Lauritzen, John Irwin, Agricultural College of Utah, Logan, Utah. (65). G
Lavagnino, G., E. M., 593 East California St., Pasadena, Cal. (60). D
Lavers, Enoch C., Ph. D., 297 Virginia Ave., Jersey City, N. J. (54). A L
Lavery, Charles J., M. D., Fort Pierre, S. D. (60). K
*Laves, Kurt, Ph. D., Associate Professor of Astronomy, University of Chicago, Chicago, Ill. (58). 1909. A
Law, Benedict W., Collins, N. Y. (45). E
Law, J. Eugene, 1834 El Cerrito Place, Hollywood, Cal. (65).
*La Wall, Charles Herbert, Analytical and Consulting Chemist, 39 South 10th St., Philadelphia, Pa. (58). 1911. C
Lawbaugh, Elmer Arthur, P. O. Box 664, Meriden, Conn. (52). K
*Lawrence, A. E., The Lichen, Seal Harbor, Me. (49). 1906. B
Lawrence, Florus Fremont, M. D., Sc. D., LL. D., Chief of Staff and Surgeon, Lawrence Hospital, Columbus, Ohio. (53). K
Lawrence, George Alfred, M. D., 142 West 86th St., New York, N. Y. (57). H K

*Lawrence, Henry Edmund, University of Rochester, Rochester, N. Y. (44). 1906. **B**

*Lawrence, James W., Professor of Mechanical Engineering, State Agricultural College, Fort Collins, Colo. (50). 1912. **D**

Lawrence, John V., Station for Experimental Evolution, Cold Spring Harbor, N. Y. (65). **C**

Lawrence, William Evans, Department of Botany, Oregon State Agricultural College, Corvallis, Ore. (60). **G**

Lawrie, Harold N., E. M., 526 Yeon Building, Portland, Oregon. (58). **D**

*Lawson, Andrew Cowper, Ph. D., Professor of Geology and Mineralogy, University of California, Berkeley, Cal. (50). 1901. **E**

Lawton, William Henry, C. E., 24 Bellevue Ave., Newport, R. I. (60). **D**

*Lazell, Ellis Warren, Ph. D., care A. S. Spackman Engineering Co., 42 North 16th St., Philadelphia, Pa. (51). 1911. **C**

*Lazenby, William Rane, Professor of Forestry, Ohio State University, Columbus, Ohio. (30). 1882. **G I L M**

Lea, Charles M., Valley Forge Road, Devon, Pa. (58).

*Leach, Mary F., Ph. D., Professor of Chemistry, Western College, Oxford, Ohio. (44). 1896. **C F K**

Leaf, Carl E., 204 New York St., Aurora, Ill. (60). **C**

Leal, Manuel T., M. D., 1120 Farragut St., Laredo, Texas. (58). **K**

*Leaming, Edward, M. D., 11 East 48th St., New York, N. Y. (50). 1901. **C**

*Leary, Timothy, M. D., Tufts College Medical School, Boston, Mass. (60). 1911. **K**

Leathers, Adelbert L., 2034 Orrington Ave., Evanston, Ill. (64). **F**

*Leavenworth, Francis P., Professor of Astronomy, University of Minnesota, Minneapolis, Minn. (62). 1913. **A**

*Leavenworth, William S., Olivet College, Olivet, Mich. (60). 1915. **C**

*Leavitt, Frank McDowell, M. E., 133 Plymouth St., Brooklyn, N. Y. (51). 1904. **D**

*Leavitt, Miss Henrietta S., Harvard College Observatory, Cambridge, Mass. (55). 1907. **A**

*Le Baron, John Francis, C. E., E. M., Chardon, Ohio. (51). 1903. **D E F H**

*Le Clerc, J. Arthur, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C G**

*Le Conte, Robert Grier, M. D., 1625 Spruce St., Philadelphia, Pa. (51). 1911. **K**

*Le Count, Edwin Raymond, M. D., Professor of Pathology, Rush Medical College, Chicago, Ill. (58). 1909. **K**

*Ledoux, Albert Reid, Ph. D., 99 John St., New York, N. Y. (26). 1881. **C D**

Ledyard, Edgar Madison, Director, Agricultural Department, U. S. Smelting Company, Salt Lake City, Utah. (62). **F M**

Lee, Blewett, Illinois Central R. R. Co., 135 East 11th Place, Chicago, Ill. (58). **H I**

*Lee, Frederic Schiller, Ph. D., Professor of Physiology, Columbia University, New York, N. Y. (49). 1901. **K**

*Lee, John Yiubong, Ryerson Physical Laboratory, University of Chicago, Chicago, Ill. (63). 1915. **B**

Lee, Marguerite Thouron, Ph. D., 66 West 95th St., New York, N. Y. (60). **A F**

*Lee, Oliver Justin, Ph. D., Williams Bay, Wis. (61). 1913. **A**

Lee, Ralph Everett, M. D., 427 Smith St., Peekskill, N. Y. (66). **C**

*Lee, Richard Edwin, Sc. D., Professor of Chemistry, Allegheny College, Meadville, Pa. (53). 1908. **C**

Lee, Richard H., 806 American Trust Building, Cleveland, Ohio. (63).

*Lee, Thomas George, M. D., Professor of Histology and Embryology, University of Minnesota, Minneapolis, Minn. (55). 1907. **F K**

*Lee, Willis Thomas, Ph. D., U. S. Geological Survey, Washington, D. C. (47). 1903. **E**

Leeds, Alexander B., M. D., Chickasha, Okla. (58). **K**

*Leeds, Morris Evans, 4901 Stenton Ave., Philadelphia, Pa. (50). 1906. **B**

*Lees, James H., Iowa Geological Survey, State House, Des Moines, Iowa. (62). 1914. **E**

*Lefavour, Henry, Ph. D., LL. D., President, Simmons College, Boston, Mass. (42). 1894. **B I**

*Lefevre, George, Ph. D., Professor of Zoology, University of Missouri, Columbia, Mo. (55). 1908. **F**

Leffingwell, Ernest de Koven, P. O. Box 1133, Pasadena, Cal. (63).

Leffler, Burton Rutherford, C. E., 1515 East 86th St., Cleveland, Ohio. (58). **D**

Lehenbauer, Philip Augustus, Department of Botany, University of Nevada, Reno, Nev. (62). **G**

Lehman, Daniel A., Goshen College, Goshen, Ind. (62). **A B L**

LEHMAN, MEYER H., 667 Madison Ave., New York, N. Y. (57).

*Lehmer, Derrick Norman, Ph. D., Associate Professor of Mathematics, University of California, Berkeley, Cal. (60). 1910. **A**

Lehndorff, Elmer R., Rogers, Michigan. (63). **E**

Lehnerts, Edward M., Assistant Professor of Geography and Geology, University of Minnesota, Minneapolis, Minn. (62). **E**

Leib, Judge Samuel Franklin, San José, Cal. (65).

Leiby, Rowland Willis, State Museum Building, Raleigh, N. C. (65). **F M**

*Leidy, Joseph, M. D., 1319 Locust St., Philadelphia, Pa. (51). 1906. **K**

*Leighton, Joseph Alexander, Ph. D., Professor of Philosophy, Ohio State University, Columbus, Ohio. (60). 1915. **H**

Leighton, Morris M., 5344 Woodlawn Ave., Chicago, Ill. (64). **E**

Leighty, Clyde Evert, Ph. D., 2813 Quarry Road, Washington, D. C. (63). **G**

*Leith, Charles Kenneth, Ph. D., Professor of Economic and Structural Geology, University of Wisconsin, Madison, Wis. (53). 1906. **E**

Leitz, Ernst, 30 East 18th St., New York, N. Y. (60).

Leland, George Adams, M. D., 354 Commonwealth Ave., Boston, Mass. (58). **K**

*Leland, Ora Miner, Assistant Professor of Geodesy and Astronomy, Cornell University, Ithaca, N. Y. (54). 1910. **A B D**

Leman, William T., P. O. Box 900, St. Louis, Mo. (58). **B C D E**

Lemley, Cassius McCarl, C. E., Assistant Engineer, B. & O. R. R. Co., Morgantown, W. Va. (51). **D**

*Lemon, James S., Ph. D., 31 Park St., Gardner, Mass. (52). 1913. **H**

*Leng, Charles William, 439 Columbia St., West New Brighton, Staten Island, N. Y. (54). 1915. **F**

*Lengfeld, Felix, Ph. D., Consulting and Manufacturing Chemist, 1350 Sutter St., San Francisco, Cal. (51). 1904. **C**

*Lenher, Victor, Ph. D., Professor of Chemistry, University of Wisconsin, Madison, Wis. (52). 1904. **C**

Lenk, Walter S. care Lenk Wine Co., West Toledo, Ohio. (60). **C**

*Lennes, Nels Johann, Ph. D., University of Montana, Missoula, Mont. (60). 1911. **A**

*Lenox, Lionel Remond, Professor of Analytical Chemistry, Leland Stanford Junior University, Stanford University, Cal. (63). 1915. **C**

*Leonard, Arthur Gray, Ph. D., Professor of Geology, University of North Dakota, University, N. D. (58). 1910. **E**

*Leonard, Heman Burr, Ph. D., Assistant Professor of Mathematics, University of Oregon, Eugene, Ore. (60). 1914. **A**

Leonard, John William, 43 West 27th St., New York, N. Y. (51). **I**

Leonard, Mortimer D., Cornell University, Ithaca, N. Y. (63). **F**

Leonard, Ward H., M. D., 608 Southwest Boulevard, Kansas City, Mo. (60). **K**

Lerche, William, M. D., Lowry Building, St. Paul, Minn. (60). **K**

Lesher, Arthur L., 670 Broadway, New York, N. Y. (57).

Lesley, Robert W., 604 Pennsylvania Building, Philadelphia, Pa. (54). **C**

Leslie, George L., Director, Psychological Clinic, Los Angeles City Schools, Health Department, Los Angeles, Cal. (58). **H**

*Lester, Oliver Clarence, Ph. D., Professor of Physics, University of Colorado, Boulder, Colo. (58). 1911. **A B**

*Leuba, James Henry, Ph. D., Professor of Psychology, Bryn Mawr College, Bryn Mawr, Pa. (58). 1911. **H**

*Leuschner, Armin Otto, Sc. D., Ph. D., Professor of Astronomy, Students College, University of California, Berkeley, Cal. (63). 1913. **A**

*Levene, Phoebus Aaron Theodor, M. D., Rockefeller Institute for Medical Research, New York, N. Y. (53). 1906. **C K**

Levensaler, Lewis A., E. M., Kennecott, via Valdez, Alaska. (60). **D**

*Leverett, Frank, 1724 South University Ave., Ann Arbor, Mich. (37). 1891. **E H I**

LEVERETT, GEORGE VASMER, 66 Beacon St., Boston, Mass. (60).

Levin, Arvid Michael, M. E., 910 Monadnock Building, Chicago, Ill. (60). **D**

Levine, Michael, Ph. D., 449 West 124th St., New York, N. Y. (66). **G**

Leviston, Prof. Irwen, Paxton Hall, R. F. D., Clayville, Va. (62). **B E**

Levy, Augustus, 127 Lewis St., Geneva, N. Y. (64). **C**

*Levy, Ernest Coleman, M. D., 2517 Grove Ave., Richmond, Va. (54). 1906. **C K**

Levy, Louis Edward, 1424 North 15th St., Philadelphia, Pa. (62).

*Lewis, Albert Buell, Ph. D., Field Museum of Natural History, Chicago, Ill. (58). 1909. **H**

Lewis, Bertha, M. D., Pembroke Road, Bryn Mawr, Pa. (54). **I K L**

Lewis, Charles Edward, Ph. D., Waterville, Me. (60). **G**

LEWIS, CLARENCE MCKENZIE, care Wm. Salomon & Co., 25 Broad St., New York, N. Y. (47). **D**

Lewis, Daniel C., Millville, N. J. (57). **C**

*Lewis, E. Percival, Ph. D., Professor of Physics, University of California, Berkeley, Cal. (53). 1905. **B**

*Lewis, Frederic Thomas, M. D., 76 Oxford St., Cambridge, Mass. (60). 1911. **F K**

*Lewis, Gilbert Newton, Ph. D., Professor of Physical Chemistry, University of California, Berkeley, Cal. (60). 1910. **C**

Lewis, Harry R., New Jersey Agricultural Experiment Station, New Brunswick, N. J. (63). **G**

Lewis, Lieut.-Col. I. N., U. S. A., 5 Adelphi Terrace, Strand, London, England. (58). **D**

Lewis, Dr. Isaac McKinney, University of Texas, Austin, Texas. (61). **G**

*Lewis, Ivey Foreman, Ph. D., Professor of Botany, University of Missouri, Columbia, Mo. (60). 1911. **G**

LEWIS, JOHN FREDERICK, 1914 Spruce St., Philadelphia, Pa. (65). **H I**

*Lewis, Joseph Volney, Professor of Geology and Mineralogy, Rutgers College, New Brunswick, N. J. (45). 1900. **C E**

Lewis, Morris James, M. D., Ph. D., 1316 Locust St., Philadelphia, Pa. (65). **K**

*Lewis, Paul Adin, M. D., The Henry Phipps Institute, Philadelphia, Pa. (62). 1915. **K**

Lewis, Ransome T., C. E., 412 West Clinton St., Elmira, N. Y. (60). **D**

Lewis, Robert Curtis, Ph. D., 213 Maple St., Spartanburg, S. C. (64). **C**

Lewis, Robert S., E. M., 270 South 13th East St., Salt Lake City, Utah. (60). **D**

Lewis, Rollin C. W., M. E., Yale and Towne Manufacturing Co., Stamford, Conn. (60). **D**

*Lewis, Warren Harmon, M. D., Professor of Physiological Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1909. **K**

*Lewis, Wilfred, M. E., 18th and Hamilton Sts., Philadelphia, Pa. (51). 1906. **D**

Lewisohn, Adolph, 9 West 57th St., New York, N. Y. (57).
Lewisohn, Julius A., E. M., 9 West 57th St., New York. N. Y. (60). **D**
Lewton, Frederick Lewis, Takoma Park, D. C. (54). **C F G I**
*Lewton-Brain, Laurence, Director of Agriculture, Kuala Lumpur, Federated Malay States. (55). 1911. **G**
*Libbey, William, Sc. D., Professor of Physical Geography, Princeton University, Princeton, N. J. (29). 1887. **E**
Libby, George W., M. D., Traders Block, Spokane, Wash. (60). **K**
Libman, Emanuel, M. D., 180 East 64th St., New York, N. Y. (60). **K**
*Lichtenthaeler, Robert A., Assistant Professor of Chemistry, Agricultural Experiment Station, Kingston, R. I. (58). 1911. **B C E**
Lichthardt, G., Jr., 1800 Capitol Ave., Sacramento, Cal. (50). **C**
Lichty, Daniel, M. D., Masonic Temple, Rockford, Ill. (51). **K**
*Lichty, David Martin, Ph. D., Chemical Laboratory, Ann Arbor, Mich. (58). 1911. **C**
Liden, Prof. Oscar E., Coeur d'Alene College, Coeur d'Alene, Idaho. (64).
Lieb, John William, M. E., care The Edison Co., Irving Place and 15th St., New York, N. Y. (57). **D**
Lieber, Hugo, 25 Madison Ave., New York, N. Y. (53). **C**
Liebmann, Charles Joseph, 36 Forrest St., Brooklyn, N. Y. (58).
Liebmann, David, 40 East 72d St., New York, N. Y. (65).
Liebmann, Julius, 380 Clinton Ave., New York, N. Y. (65).
Lietze, Fred August, C. E., Carlyle, Ill. (64). **D**
*Life, Andrew C., Assistant Professor of Biology, University of Southern California, Los Angeles, Cal. (60). 1911. **F G**
Lightbody, Howard David, Warsaw High School, Warsaw, Ill. (66). **F**
Lightfoot, Thomas Montgomery, Assistant Professor of Physical Science, Central High School, Philadelphia, Pa. (51). **G**
Lightner, Calvin R., M. D., Metropolitan Building, St. Louis, Mo. (53). **K**
*Lillie, Frank Rattray, Ph. D., Professor of Zoology and Embryology, University of Chicago, Chicago, Ill. (50). 1901. **F**
*Lillie, Ralph Stayner, Ph. D., Biological Laboratory, Clark University, Worcester, Mass. (58). 1909. **F K**
*Lincoln, Francis Church, E. M., Ph. D., Head, Mackay School of Mines, University of Nevada, Reno, Nev. (57). 1911. **D E**
Lincoln, John J., E. M., General Manager, Upland Coal and Coke Co., Elkhorn, W. Va. (60). **D**
Lind, J. G., 2538 Monroe Ave., Ogden, Utah. (66).
*Lind, Samuel Colville, Ph. D., U. S. Bureau of Mines, Denver, Colo. (63). 1915. **C**
Lindahl, Josua, Ph. D., 5700 Peoria St., Chicago, Ill. (55). **F**
Lindenkohl, Henry, U. S. Coast and Geodetic Survey, Washington, D.C. (47). **D**
*Lindenthal, Gustav, C. E., P. O. Box 665, Metuchen, N. J. (37). 1891. **D F I**
*Lindgren, Waldemar, Professor of Economic Geology, Massachusetts Institute of Technology, Boston, Mass. (53). 1906. **E**

Lindley, Curtis Holbrook, E. M., LL. D., 2000 Pacific Ave., San Francisco, Cal. (60). **D**

*Lindley, Ernest Hiram, Ph. D., Professor of Psychology, Indiana University, Bloomington, Ind. (51). 1905. **H**

Lindsay, John Douglas, 34 West 11th St., New York, N. Y. (57). **I**

*Lindsay, Samuel McCune, Ph. D., Professor of Social Legislation, Columbia University, New York, N. Y. (54). 1906. **I L**

Lindsay, Walter, M. D., Huntington, L. I., N. Y. (60). **K**

*Lindsey, Edward, Warren National Bank Building, Warren, Pa. (48). 1906. **H I**

*Lindsey, Joseph B., Ph. D., Head, Department of Chemistry, Mass. Agricultural College, Amherst, Mass. (58). 1911. **C K**

*Lines, Edwin Fuller, Fayetteville, Ark. (54). 1911. **E**

Linfield, Frederick Bloomfield, Professor of Agronomy, Montana Agricultural Experiment Station, Bozeman, Mont. (65). **G M**

*Ling, Charles Joseph, Ph. D., Professor of Physics and Astronomy, Allegheny College, Meadville, Pa. (50). 1901. **A B**

*Ling, George Herbert, Ph. D., Professor of Mathematics and Dean, Faculty of Arts and Sciences, University of Saskatchewan, Saskatoon, Can. (52). 1906. **A**

LINHART, SAMUEL BLACK, D. D., Secretary and Professor of Biblical Literature and Ethics, University of Pittsburgh, Pittsburgh, Pa. (56).

Link, George K. K., Adjunct Professor of Agricultural Botany, University of Nebraska, Lincoln, Nebr. (63). **G M**

Link, J. Joseph, M. D., Metropolitan Building, St. Louis, Mo. (58). **K**

Link, Theodore Carl, Carleton Building, St. Louis, Mo. (51). **B E F G H K**

*Linn, Alvin Frank, Ph. D., Professor of Chemistry and Mineralogy, Wittenberg College, Springfield, Ohio. (50). 1901. **C**

Linsley, Earle G., Department of Geology, Mills College, Mills College, Cal. (66). **E**

Linton, C. B., 125 West Ocean Avenue, Long Beach, Cal. (65).

*Linton, Edwin, Ph. D., Professor of Biology, Washington and Jefferson College, Washington, Pa. (51). 1905. **F**

Linton, J. H., 502–504 Lyon Building, Seattle, Wash. (65).

*Linville, Henry Richardson, Ph. D., 6 Madison Ave., Jamaica, N. Y. (49). 1906. **F L**

*Lipka, Joseph, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (58). 1913. **A**

*Lipman, Charles Bernard, Ph. D., Assistant Professor of Soil Chemistry and Bacteriology, University of California, Berkeley, Cal. (62). 1913. **C**

Lipman, F. L., Vice-President, Wells Fargo Nevada National Bank, San Francisco, Cal. (58). **I**

*Lipman, Jacob Goodale, Ph. D., Director, N. J. Agricultural Experiment Station, New Brunswick, N. J. (63). 1913. **G M**

Lisboa, Miguel Arrojado Ribeiro, E. M., 426, Praia Batafogo, Rio de Janeiro, Brazil, S. A. (60). **D**

Lischer, Benno Edward, M. D., 513 Wall Building, St. Louis, Mo. (53). **K**
Littauer, William, 1640 Rhode Island Ave., Washington, D. C. (65).
*Littell, Frank Bowers, Professor of Astronomy, U. S. Naval Observatory, Washington, D. C. (49). 1903. **A**
Litterer, William, M. D., care Vanderbilt Medical College, Nashville, Tenn. (60). **K**
*Little, Arthur Dehon, Chemist, 93 Broad St., Boston, Mass. (54). 1906. **C**
Little, C. A., P. O. Box 127, Elyria, Ohio. (60). **C**
Little, Clarence C., Cottage St., Brookline, Mass. (61). **F**
*Little, Homer P., Ph. D., Colby College, Waterville, Me. (61). 1915. **E**
*Littlehales, George Washington, C. E., 2132 Le Roy Place, Washington, D. C. (52). 1904. **A B D E**
Livermore, William Roscoe, Colonel U. S. A., Retired, 17 Hereford St., Boston, Mass. (61). **A B D**
*Livingston, Burton Edward, Ph. D., Professor of Plant Physiology, Johns Hopkins University, Baltimore, Md. (53). 1906. **G**
Livingstone, Colin Hamilton, 1249 Kenyon St., Washington, D. C. (62).
*Lloyd, Edwin Russell, U. S. Geological Survey, Washington, D. C. (64). 1915. **E**
*Lloyd, Francis Ernest, McDonald Professor of Botany, McGill University, Montreal, Can. (48). 1901. **G**
*Lloyd, John Thomas, New York State College of Agriculture, Ithaca, N. Y. (63). 1915. **F**
*Lloyd, John Uri, Ph. D., LL. D., President, The Lloyd Library, 224 West Court St., Cincinnati, Ohio. (38). 1890. **C F**
*Lloyd, Morton Githens, Ph. D., 608 So. Dearborn St., Chicago, Ill. (52). 1906. **B C I**
Lloyd, Thomas P., M. D., Shreveport, La. (60). **K**
Lloyd-Jones, Orren, Ames, Iowa. (63). **F**
*Lochhead, William, Professor of Biology, Macdonald College, Quebec, Canada. (51). 1906. **F G**
Locke, J. R., 156 Buena Vista Ave., West, Detroit, Mich. (65).
Lockwood, Charles Daniel, M. D., Pasadena, Cal. (64). **I K**
Lockwood, Cornelius Wygant, Stuyvesant High School, New York, N. Y. (51). **B D L**
*Lockwood, Edwin Hoyt, Ph. D., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. (50). 1912. **D**
*Locy, William Albert, Sc. D., Ph. D., Professor of Zoology, Northwestern University, Evanston, Ill. (58). 1910. **F**
Lodge, Prof. Richard Walley, Redlands, Cal. (62). **D**
*Lodholz, Edward, M. D., Assistant Professor of Physiology, University of Pennsylvania, Philadelphia, Pa. (53). 1915. **K**
*Loeb, Hanau Wolf, M. D., 537 North Grand Ave., St. Louis, Mo. (60). 1911. **K**
*Loeb, Jacques, M. D., Sc. D., Ph. D., Head, Department of Experimental Biology, Rockefeller Institute for Medical Research, New York, N. Y. (62). 1911. **K**

*Loeb, Leo, M. D., Director, Pathological Department, Barnard Skin and Cancer Hospital, St. Louis, Mo. (51). 1905. F K

Loeb, Milton Charles, 336 York St., Jersey City, N. J. (60). C

*Loevenhart, Arthur S., M. D., Professor of Pharmacology and Toxicology, University of Wisconsin, Madison, Wis. (60). 1911. C F K

*Loew, Oscar, Ph. D., München Hygienic Institute, München, Germany. (49). 1900. K

*Loewenstein, Louis C., Ph. D., 16 Wolcott Road, Lynn, Mass. (54). 1904. D

Loewy, Benno, Ph. D., 206-208 Broadway, New York, N. Y. (41).

Logan, Frank G., 1150 Lake Shore Drive, Chicago, Ill. (42). H

LOGAN, WILLIAM N., Ph. D., Director, School of General Science, Miss. A. and M. College, Agricultural College, Miss. (65). D E

Loguin, Alexander J., E. E., General Delivery, West Allis Station, Milwaukee, Wis. (58). D

Löhnis, Felix, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). F

Loines, Stephen, 51 Wall St., New York, N. Y. (65). A

Lomanitz, S., 2a Avenida Juarez 5, Tacuba, D. F., Mexico. (63). C

Lomb, Adolph, 37 St. Paul St., Rochester, N. Y. (41).

Lomb, Henry Charles, 11 East 68th St., New York, N. Y. (43). B

*Lombard, Warren Plimpton, M. D., Sc. D., Professor of Physiology, University of Michigan, Ann Arbor, Mich. (58). 1909. K L

*Long, David D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (62). 1915. C

Long, Eleanor Tatum, 522 East State St., Ithaca, N. Y. (63). E

Long, Esmond R., 5634 6th Ave., N. W., Seattle, Wash. (66). K

Long, Francis A., M. D., Madison, Nebr. (60). K

Long, Henry C., 617 Tremont Building, Boston, Mass. (60).

*Long, John Harper, Sc. D., Professor of Chemistry, Northwestern University Medical School, Chicago, Ill. (41). 1895. C

*Long, Joseph A., Ph. D., Department of Zoology, University of California, Berkeley, Cal. (61). 1913. F

Longaker, Daniel, M. D., 1402 North 16th St., Philadelphia, Pa. (53). K

*Longcope, Warfield Theobald, M. D., Bard Professor of Medicine, Columbia University, New York, N. Y. (62). 1914. K

*Longden, Aladine Cummings, Ph. D., Professor of Physics, Knox College, Galesburg, Ill. (49). 1901. B

Lonigo, Emil Victor, M. D., 1362 Grant Ave., San Francisco, Cal. (65). K

Lonsdale, James, M. D., Dale, Iowa. (60). K

*Loomis, Elmer Howard, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (54). 1906. B

*Loomis, Frederic Brewster, Ph. D., Professor of Zoology, Amherst College, Amherst, Mass. (50). 1913. F

Loomis, Howard, Department of Agronomy, South Dakota State College, Brookings, S. D. (62). C

*Loomis, Seymour Crane, 69 Church St., New Haven, Conn. (60). 1913. I

Looney, Wesley A., Frick Annex, Pittsburgh, Pa. (63). C

Lopez, Robert F., Commander, U. S. N., Retired, University Club, San Francisco, Cal. (66). D I

*Lord, Herbert Gardiner, Professor of Philosophy, Columbia University, New York, N. Y. (58). 1914. H

Lord, John Prentiss, M. D., 3421 Farnam St., Omaha, Nebr. (55). G

*Lorenz, Miss Annie, 96 Garden St., Hartford, Conn. (62). 1915. G

Lorini, Raffaele, M. D., Hotel del Coronado, Coronado Beach, Cal. (60). K

Lory, Charles Alfred, LL. D., President, State Agricultural College of Colorado, Fort Collins, Colo. (62). L

Lo Sardo, Antonino, 45 West 8th St., New York, N. Y. (58). C

*Lothrop, Alfred P., Department of Chemistry, Queen's University, Kingston, Ont., Canada. (60). 1915. C

*LOUDERBACK, GEORGE DAVIS, Ph. D., Associate Professor of Geology, University of California, Berkeley, Cal. (50). 1906. E

*Lough, James Edwin, Ph. D., Professor of Psychology, New York University, New York, N. Y. (50). 1901. G H I

*Loughlin, Gerald Francis, Ph. D., U. S. Geological Survey, Washington, D. C. (57). 1911. E

*Loughridge, Robert Hills, Ph. D., Emeritus Professor of Agricultural Chemistry, University of California, Berkeley, Cal. (21). 1874. C E

*Lounsbury, Charles Pugsley, Department of Agriculture, Pretoria, South Africa. (52). 1914. F

*Lounsbury, William C., Superintendent, Filtration Plant, 1518 Tower Ave., Superior, Wis. (58). 1911. C

Louria, Leon, M. D., 249 Hewes St., Brooklyn, N. Y. (60). K

Love, A. Cavitt, care Beaumont Irrigation Co., Beaumont, Tex. (58). D

*Love, Edward G., 101 West 85th St., New York, N. Y. (24). 1882. C

Love, Harry Houser, Professor of Plant Breeding, Cornell University, Ithaca, N. Y. (66). G

*Lovejoy, Arthur Oncken, Ph. D., Professor of Philosophy, Johns Hopkins University, Baltimore, Md. (58). 1911. H

Lovejoy, Frank William, M. E., 22 Seneca Parkway, Rochester, N. Y. (60). D

Lovejoy, Jesse Robert, Vice-President, General Electric Co., Schenectady, N. Y. (50). D

*Lovelace, Benjamin Franklin, Ph. D., Associate Professor of Chemistry, Johns Hopkins University, Baltimore, Md. (60). 1911. C

LOVELAND, HORACE HALL, M. D., Republic, Mich. (51). K

Lovell, John H., Waldoboro, Me. (58). F G

*Lovett, Edgar Odell, Ph. D., LL. D., President, The Rice Institute, Houston, Tex. (51). 1902. A D L

*Low, Albert Peter, Sc. D., LL. D., 154 McLaren St., Ottawa, Canada. (60). 1910. E

Low, Clarence F., care Liverpool and London and Globe Insurance Co., New Orleans, La. (52). **F G H I K L**

*Low, Hon. Seth, LL. D., 30 East 64th St., New York, N. Y. (29). 1890. **I**

Low, Wilson H., 220 South 38th Ave., Omaha, Nebr. (60). **C**

*Lowater, Frances, Ph. D., Pomeroy Hall, Wellesley College, Wellesley, Mass. (62). 1913. **A B**

*Lowber, James William, Sc. D., Ph. D., LL. D., 1706 Brazos St., Austin, Tex. (50). 1906. **A E H I L**

*Lowe, Ephraim Noble, M. D., Director, Geological Survey of Mississippi, Jackson, Miss. (55). 1915. **E**

*Lowell, Percival, LL. D., Professor of Astronomy, Massachusetts Institute of Technology, Boston, Mass. (36). 1896. **A**

Lowell, Russell C., English High School, Providence, R. I. (51). **A D L**

*Lowenstein, Arthur, 6030 St. Lawrence Ave., Chicago, Ill. (58). 1910. **C**

Lower, William E., M. D., 6810 Euclid Ave., Cleveland, Ohio. (58). **K**

*Lowie, Robert Harry, Ph. D., Associate Curator, American Museum of Natural History, New York, N. Y. (60). 1910. **H**

Lowman, William R., M. D., Orangeburg, S. C. (60). **K**

Lucas, Anthony F., E. M., 2300 Wyoming Ave., Washington, D. C. (50). **D E**

*Lucas, Daniel Ralph, M. D., Ph. D., 601 West 168th St., New York, N. Y. (57). 1908. **C K**

Lucius, Albert, C. E., 38 Park Row, New York, N. Y. (58). **D**

*Lucke, Charles Edward, Ph. D., Professor of Mechanical Engineering, Columbia University, New York, N. Y. (60). 1912. **D**

*Luckey, George W. A., Ph. D., Head Professor of Education, University of Nebraska, Lincoln, Nebr. (56). 1910. **H L**

*Ludlow, Clara Southmayd, Ph. D., 603, The Ethelhurst, Washington, D. C. (54). 1914. **F K**

*Ludlow, Henry Hunt, Colonel, U. S. Coast Artillery, Fort Stevens, Oregon. (54). 1906. **A D**

Ludwig, Clinton Albert, Agricultural Experiment Station, West La Fayette, Ind. (65). **G**

Luebkert, Otto, Germania Life Insurance Company, 1711 H St., N. W. Washington, D. C. (50). **G**

Luehrs, Daniel Michael, M. E., care McCreery Engineering Co., Toledo, Ohio. (58). **D**

*Luginbill, Philip, University of South Carolina, Columbia, S. C. (62). 1914. **F**

*Lukens, Herman Tyson, Ph. D., 330 Webster Ave., Chicago, Ill. (55). 1911. **E L**

Lull, H. G., 5643 20th Ave. S. E., Seattle, Wash. (66).

Lum, Miss Elizabeth S., Elizabeth, N. J. (57).

Lundholm, Eric M., M. D., 677 University Ave., St. Paul, Minn. (58). **K**

*Lundin, Carl Axel Robert, care Alvan Clark and Sons Corporation, Cambridgeport, Mass. (47). 1906. A

*Luquer, Lea McIlvane, Ph. D., Adjunct Professor of Mineralogy, Columbia University, New York, N. Y. (49). 1902. E

*Lusk, Graham, Sc. D., Ph. D., Professor of Physiology, Cornell University Medical College, New York, N. Y. (54). 1906. K

Lussky, Herbert Otto, University of Chicago, Chicago, Ill. (64). K

Luther, Miss Agnes Vinton, 151 Scotland Road, South Orange, N. J. (47). E

*Lutman, Benjamin Franklin, Ph. D., Professor of Plant Pathology, University of Vermont, Burlington, Vt. (60). 1911. G

Lutz, Anne M., Cytologist, Station for Experimental Evolution, Cold Spring Harbor, Long Island, N. Y. (54). F

*Lutz, Frank Eugene, Ph. D., American Museum of Natural History, New York, N. Y. (53). 1909. F

*Lyford, Hon. Edwin F., Springfield, Mass. (33). 1896. B C H

*Lyle, David Alexander, Lieut.-Colonel, U. S. A., care Mr. Frank Berry, Depot Quartermaster's Office, Philadelphia, Pa. (28). 1880. D

Lyman, Arthur Theodore, P. O. Box 1717, Boston, Mass. (60).

*Lyman, Benjamin Smith, E. M., 708 Locust St., Philadelphia, Pa. (15). 1905. E

Lyman, Chester Wolcott, International Paper Co., 30 Broad St., New York, N. Y. (50). I

*Lyman, Elmer A., Professor of Mathematics, Michigan State Normal College, Ypsilanti, Mich. (53). 1906. A

*Lyman, George Richard, Ph. D., Federal Horticultural Board, Washington, D. C. (57). 1909. G

Lyman, James A., Claremont, Cal. (60). C

Lyman, John F., Ph. D., Associate Professor of Agricultural Chemistry, Ohio State University, Columbus, Ohio. (62). C G

Lyman, Rufus Ashley, M. D., University of Nebraska, Lincoln, Nebr. (60). K

*Lyman, Theodore, Ph. D., Assistant Professor of Physics, Jefferson Physical Laboratory, Harvard University, Cambridge, Mass. (55). 1907. D

Lynch, Ella Frances, 4317 Ventnor Ave., Atlantic City, N. J. (65). A

Lynch, William H., Springfield State Normal School, Springfield, Mo. (52). I

Lynde, Carleton J., Ph. D., Macdonald College, Quebec, Canada. (62).

Lyon, Darwin O., M. D., 111 Crary Ave., Mt. Vernon, N. Y. (63). C H I K

*Lyon, Elias Potter, Ph. D., Dean, School of Medicine, University of Minnesota, Minneapolis, Minn. (58). 1911. F K L

*Lyon, George John, C. E., Assistant Professor of Civil Engineering, Union College, Schenectady, N. Y. (64). 1915. D

*Lyon, Harold Lloyd, Ph. D., H. S. P. Experiment Station, Honolulu, Hawaii. (60). 1911. K

Lyon, Leon Elie, C E., U. S. Engineer Office, Norfolk, Va. (61). D

*Lyon, Marcus Ward, Jr., M. D., Ph. D., 48 V St. N. W., Washington, D. C. (53). 1911. F K

Lyon, Ralph Albert, Hawaiian Fertilizer Co., Honolulu, Hawaii. (58). C

Lyon, Scott Cary, Tulane University, New Orleans, La. (55). B C

*Lyon, Thomas Lyttleton, Ph. D., Professor of Soil Technology, Cornell University, Ithaca, N. Y. (56). 1911. C

*Lyons, Albert Brown, M. D., 102 Alger St., Detroit, Mich. (50). 1911. C G

*Lyons, Robert Edward, Ph. D., Professor of Chemistry, University of Indiana, Bloomington, Ind. (51). 1906. C

*Lythgoe, Hermann C., 501 State House, Boston, Mass. (58). 1911. C

Maas, Philip, Professor of Chemistry, Central High School, Philadelphia, Pa. (60). C

Mabee, Professor Fred C., Chemical Laboratory, Shanghai Baptist College. Shanghai, China. (61). C

*Mabery, Charles Frederic, Sc. D., Professor of Chemistry, Case School of Applied Science, Cleveland, Ohio. (29). 1881. C

*McAdam, Dunlap Jamison, Ph. D., Professor of Engineering, Washington and Jefferson College, Washington, Pa. (51). 1915. D

*McAfee, Almer McDuffie, Chemists Club, New York, N. Y. (63). 1915. C

*McAllister, Cloyd North, Ph. D., Berea, Ky. (52). 1906. H I K

McAllister, Frederick, Ph. D., 3205 West Ave., Austin, Texas. (62). G

McAllister, W. B., 2165 East 31st St., Cleveland, Ohio. (63).

*MacArthur, John Wood, Zoology Building, University of Chicago, Chicago, Ill. (65). 1915. F

*McArthur, Lewis L., M. D., 4724 Drexel Boulevard, Chicago, Ill. (51). 1911. K

*McAtee, Waldo Lee, U. S. Department of Agriculture, Washington, D. C. (54). 1906. F

McBean, Duncan D., 1107–11 Park Row Building, New York, N. Y. (58). D

Macbeth, George Alexander, 717 Amberson Ave., Pittsburgh, Pa. (50). C

McBeth, Ira Guy, Citrus Experiment Station, Riverside, Cal. (62). G

*McBride, James Harvey, M. D., Pasadena, Cal. (51). 1909. K

*MacBride, Thomas Huston, Ph. D., President, State University of Iowa, Iowa City, Iowa. (38). 1890. E G

McBryde, Charles Neil, M. D., Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (62). C K

McBryde, James Bolton, Professor of Chemistry, Virginia Polytechnic Institute, Blacksburg, Va. (63). C

McCall, Arthur Gillett, Professor of Agronomy, Ohio State University, Columbus, Ohio. (62). **G M**

McCalla, Albert, Ph. D., 2316 Calumet Ave., Chicago, Ill. (58). **A B G**

McCallie, James Park, Ph. D., Highland Park Station, Chattanooga, Tenn. (57). **A**

*McCallie, Samuel Washington, State Geologist of Georgia, Atlanta, Ga. (62). 1913. **E**

McCallum, William Burnett, Continental Rubber Co., San Diego, Cal. (66). **G**

*MacCallum, William George, M. D., 981 Madison Ave., New York, N. Y. (60). 1910. **K**

McCampbell, Eugene Franklin, M. D., Ph. D., Professor of Bacteriology, Ohio State University, Columbus, Ohio. (63). **K**

McCarthy, Edward Florence, State Ranger School, Wanakena, N. Y. (64). **G**

McCarthy, Maurice Lawrence, 30 Maple St., Haverhill, Mass. (58). **C D**

*McCaskey, Hiram Dryer, U. S. Geological Survey, Washington, D. C. (55). 1907. **E**

McCastline, William H., M. D., Department of Physical Education, Teachers College, Columbia University, New York, N. Y. (56). **K**

*MacCaughey, Vaughan, Professor of Botany, College of Hawaii, Honolulu, Hawaii. (58). 1911. **H I L**

*McCaughey, William J., 42 Channing St., Washington, D. C. (60). 1911. **C**

McCauley, George Vest, Ph. D., Laboratory of Physics, Northwestern University, Evanston, Ill. (58). **B**

*McCaustland, Elmer James, Dean, Engineering Faculty, University of Missouri, Columbia, Mo. (52). 1905. **D L**

*McCay, Le Roy Wiley, Sc. D., Professor of Inorganic Chemistry, Princeton University, Princeton, N. J. (57). 1908. **C**

*McClellan, John Hancock, Ph. D., 1417 Peoples Gas Building, Chicago, Ill. (58). 1910. **F K**

McClelland, Lefferts Augustine, M. D., 78 McDonough St., Brooklyn, N. Y. (63). **K**

McClelland, Silas E., M. D., Decatur, Ill. (60). **K**

McClenahan, Francis Mitchell, Professor of Chemistry, Maryville College, Maryville, Tenn. (62). **C**

*McClendon, Jesse F., Ph. D., University of Minnesota Medical School, Minneapolis, Minn. (57). 1910. **F K**

*McClintock, Emory, Ph. D., LL. D., Bay Head, N. J. (43). 1895. **A**

McClintock, James Albertine, 110 Holmes St., Lansing, Mich. (65).

*McClintock, John T., M. D., 230 Fairchild St., Iowa City, Iowa. (58). 1911. **K**

*McClung, Clarence Erwin, Ph. D., Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (52). 1908. **F**

*McClung, Robert Kenning, Sc. D., Professor of Physics, University of Manitoba, Winnipeg, Canada. (56). 1908. **B**

McClure, James, Department of Physics, Vanderbilt University, Nashville, Tenn. (62). B

*McCollum, Elmer Verner, Ph. D., Assistant Professor of Agricultural Chemistry, University of Wisconsin, Madison, Wis. (58). 1911. C

*McComas, Henry Clay, Jr., Ph. D., Assistant Professor of Psychology, Princeton University, Princeton, N. J. (63). 1914. H

*McConnell, Guthrie, M. D., 347 Llandrillo Road, Cynwyd, Pa. (58). 1909. K

McConnell, Prof. Wilbur Ross, U. S. Bureau of Entomology, Hagerstown, Md. (57). F

McCook, John B., M. D., 396 Main St., Hartford, Conn. (60). K

McCool, M. M., Ph. D., Assistant Professor of Soils, Michigan Agricultural College, East Lansing, Mich. (66). M

McCord, Carey Pratt, 472 Penn. Ave., Detroit, Mich. (63).

McCorkle, Prof. Walker Ellsworth, Cornell University Medical College, Ithaca, N. Y. (64). F

McCormack, Joseph Nathaniel, M. D., LL. D., Bowling Green, Ky. (60). K

McCormick, Miss Florence Anna, Agricultural Experiment Station, Lincoln, Nebr. (55). E

McCormick, Harold Fowler, Suite 1212, 30 North La Salle St., Chicago, Ill. (58).

McCormick, Rev. Samuel Black, D. D., LL. D., Chancellor, University of Pittsburgh, Pittsburgh, Pa. (54).

*McCourt, Walter Edward, Head, Department of Geology, Washington University, St. Louis, Mo. (57). 1911. E

McCoy, William Merrill, M. D., Wenatchee, Wash. (58). K

*McCracken, Isabel, Ph. D., Stanford University, Cal. (54). 1914. F K

*MacCracken, John Henry, Ph. D., LL. D., President, Vassar College, Poughkeepsie, N. Y. (52). 1907. I

McCracken, William, Ph. D., State Normal School, Kalamazoo, Mich. (60). C

*McCray, Arthur Howard, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (62). 1914. F

McCrea, Prof. Nelson G., Columbia University, New York, N. Y. (65).

*McCreath, Andrew S., E. M., P. O. Box 466, Harrisburg, Pa. (33). 1889. C E

McCue, Charles Andrew, Professor of Horticulture, Agricultural Experiment Station, Newark, Del. (62). G

McCulloch, Miss Lucia, U. S. Department of Agriculture, Washington, D. C. (65). M

*McCullough, Ernest, C. E., 1302 Monadnock Block, Chicago, Ill. (61). 1911. D

McCullough, John Griffith, LL. D., Hall Farm, North Bennington, Vt. (57).

McCurdy, Arthur W., 320 Pemberton Building, Victoria, B. C., Canada. (52). B C D E

*McCurdy, Charles William, Sc. D., Ph. D., Weston, W. Va. (35). 1895. **C K**

*MacCurdy, George Grant, Ph. D., Yale University Museum, New Haven, Conn. (48). 1900. **H**

*MacCurdy, Hansford M., Ph. D., Professor of Biology, Alma College, Alma, Mich. (51). 1911. **F G**

McCurdy, Irwin Pounds, D. D., LL. D., 538 So. 49th St., Philadelphia, Pa. (61). **H I L**

*McCutcheon, Thomas Potter, Jr., Ph. D., Assistant Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa. (58). 1911. **C**

McDanell, Louise, Assistant Professor of Home Economics, University Farm, St. Paul, Minn. (65). **C I**

*McDaniel, Allen Boyer, C. E., Professor of Civil Engineering, University of Illinois, Urbana, Ill. (58). 1914. **A D**

McDermott, Rev. P. A., Duquesne University of the Holy Ghost, Bluff and Cooper Sts., Pittsburgh, Pa. (51). **E H I**

*MacDonald, Donald Francis, LL. D., U. S. Geological Survey, Washington, D. C. (63). 1914. **E**

McDonald, Ellice, M. D., 174 W. 58th St., New York, N. Y. (60). **K**

McDonald, Hugh N., M. D., 329 Central Ave., Minneapolis, Minn. (60). **K**

McDonald, James Daley, University of California, Berkeley, Cal. (65). **F**

*MacDonald, Margaret Baxter, Ph. D., Assistant Professor of Agricultural Chemistry, Pennsylvania State College, State College, Pa. (58). 1911. **C**

McDonald, S. P., President, First National Bank, Sylacauga, Ala. (65).

Macdonald, Prof. Stewart L., Fort Collins, Colo. (62). **A**

Macdonald, Thomas L., M. D., 1501 Massachusetts Ave. N. W., Washington, D. C. (62). **K**

*McDonnell, Curtis C., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (51). 1915. **C**

*McDonnell, Henry Barnett, M. D., Professor of Chemistry, Maryland Agricultural College, College Park, Md. (40). 1893. **C**

McDonough, James Albert, C. E., U. S. Engineer Office, Wheeling, W. Va. (60). **D**

*MacDougal, Daniel Trembly, Ph. D., LL. D., Desert Botanical Laboratory, Tucson, Ariz. (44). 1897. **G**

*McDougall, Alexander Hiram, Principal, Ottawa Collegiate Institute, Ottawa, Canada. (58). 1909. **A L**

MacDougall, George R., 112 Wall St., New York, N. Y. (49).

*MacDougall, Robert, Ph. D., Professor of Psychology, New York University, New York, N. Y. (49). 1901. **H K L**

McDowell, Alexander H., 38 Hopkins St., Woodbury, N. J. (58). **C**

McDowell, Edward Campbell, Room 211, Clyde Block, Hamilton, Can. (54). **D**

*McDowell, Louise Sherwood, Professor of Physics, Wellesley College, Wellesley, Mass. (63). 1915. B

McDuffie, Duncan, 156 The Tunnel Road, Berkeley, Cal. (66).

*McElfresh, William Edward, Ph. D., Professor of Physics, Williams College, Williamstown, Mass. (53). 1906. B

McElroy, Cecelia Baldwin, P. O. Box 2054, Philadelphia, Pa. (66).

McElroy, James B., M. D., Porter Building, Memphis, Tenn. (60). K

McEwen, Ernest L., M. D., 1703 Chicago Ave., Evanston, Ill. (60). K

*McEwen, George F., La Jolla, Cal. (65). 1915. B

McFadden, Thomas Gilbert, Department of Physics, Jersey City High School, Jersey City, N. J. (48). B

McFarland, Boynton Wells, Ph. D., Observatory Place, New Haven, Conn. (57). C D L

*McFarland, David Ford, Ph. D., Assistant Professor of Applied Chemistry, University of Illinois, Urbana, Ill. (58). 1910. C

*MacFarland, Frank Mace, Ph. D., Professor of Histology, Leland Stanford Junior University, Stanford University, Cal. (56). 1910. F K

*Macfarlane, Hon. James R., Judge of Court of Common Pleas, No. 1, Court House, Pittsburgh, Pa. (50). 1906. E

McFarlane, Miss Jennie, 35 Jennings Ave., Toronto, Can. (64). G

*Macfarlane, John Muirhead, Sc. D., Professor of Botany, University of Pennsylvania, Philadelphia, Pa. (41). 1899. G

McGee, Miss Emma R., Farley, Iowa. (33). G

McGee, John Bernard, M. D., 8117 Woodland Ave., Cleveland, Ohio. (51). H K

McGiffert, John Rutherford, M. E., care Clyde Iron Works, Duluth, Minn. (60). D

*McGill, Anthony, LL. D., 317 Queen St., Ottawa, Canada. (60). 1911. C

McGill, Caroline, M. D., Assistant Professor of Anatomy, Murray Hospital, Butte, Mont. (64). K

McGill, John A., M. D., 4938 Drexel Boulevard, Chicago, Ill. (58). K

*McGill, John Thomas, Ph. D., Professor of Organic Chemistry, Vanderbilt University, Nashville, Tenn. (36). 1888. C

*MacGillivray, Alexander Dyer, Ph. D., Associate Professor of Systematic Entomology, University of Illinois, Urbana, Ill. (58). 1913. F

McGlone, Bartgis, Ph. D., College of Physicians and Surgeons, Baltimore, Md. (58). F

*McGregor, James Howard, Ph.D., Associate Professor of Zoology, Columbia University, New York, N. Y. (52). 1905. F

*McGregory, Joseph Frank, Sc. D., Professor of Chemistry, Colgate University, Hamilton, N. Y. (35). 1892. C

McGrew, William Raymond, M. D., Stuart, Iowa. (60). K

McGuigan, Hugh, M. D., Ph. D., Northwestern University Medical School, Chicago, Ill. (58). K

*McHargue, James Spencer, Assistant Professor of Chemistry, Kentucky Agricultural Experiment Station, Lexington, Ky. (60). 1915. C

*McHatton, Henry, M. D., 335 College St., Macon, Ga. (52). 1909. K

McHatton, Thomas Hubbard, Sc. D., Adjunct Professor of Horticulture, University of Georgia, Athens, Ga. (58). G L

McHenry, Ralph F., M. D., Heilwood, Pa. (60). K

*McIndoo, Norman Eugene, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (62). 1914. F

*McInnes, William, Geological Survey of Canada, Ottawa, Canada. (60). 1910. E

McIntire, Charles, M. D., 52 North 4th St., Easton, Pa. (60). K

McIntire, Ralph Davis, Professor of Mathematics and Astronomy, Central College, Pella, Iowa. (63). A

MacIntyre, Miss Lucy, 303 West 74th St., New York, N. Y. (49).

Mack, J. Lathrop, Rock Mart, Ga. (60). C

Mack, Miss Margaret E., University of Nevada, Reno, Nevada. (66).

Mackall, Colin Mackenzie, Professor of Chemistry, University of the South, Sewanee, Tenn. (62). C

*MacKay, Alexander Howard, LL. D., Superintendent of Education for Nova Scotia, Halifax, Nova Scotia. (57). 1914. F G H I K L

*Mackay, G. M. J., Research Laboratory, General Electric Co., Schenectady, N. Y. (63). 1915. D

McKay, John S., Ph. D., Packer Collegiate Institute, Brooklyn, N. Y. (52).

MacKay, Marion Bertice, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). F

MacKay, Miss Minnette, 670 King St., Santa Rosa, Cal. (65).

*McKeag, Anna Jane, Ph. D., LL. D., President, Wilson College, Chambersburg, Pa. (60). 1910. L

McKee, Edward Sydney, M. D., 2132 Sinton Ave., W. H., Cincinnati, Ohio. (60). K

McKee, Garnet W., President, Eclipse Fuel Eng. Co., Rockford, Ill. (58). C

*McKee, Ralph Harper, Ph. D., Professor of Chemistry, University of Maine, Orono, Me. (53). 1909. C

McKee, Thomas H., M. D., 159 Cleveland Ave., Buffalo, N. Y. (60). K

*McKeehan, Louis Williams, Assistant in Physics, University of Minnesota, Minneapolis, Minn. (60). 1911. B

*McKellar, Peter, 403 John St., Fort William, Ontario, Canada. (56). 1909. A D E

McKelvey, James Percy, M. D., 519 North Highland Ave., Pittsburgh, Pa. (58). K

McKelvey, John Jay, 84 William St., New York, N. Y. (57). B I

*McKelvy, Ernest Christian, Bureau of Standards, Washington, D. C. (58). 1910. C

*McKelway, Alexander Jeffrey, D. D., 1114 Century Building, Atlanta, Ga. (55). 1907. H I L

*McKenney, Randolph Evans Bender, Ph. D., Cosmos Club, Washington, D. C. (51). 1903. C G I K

*Mackenzie, A. Stanley, Ph. D., President, Dalhousie University, Halifax, Nova Scotia. (60). 1911. B

MacKenzie, John J., Professor of Pathology and Bacteriology, University of Toronto, Toronto, Canada. (60). C K

Mackenzie, John, M. E., 415 East 16th St., Minneapolis, Minn. (62). B

McKenzie, John H., Rector, Howe School, Howe, Ind. (58). H L

*Mackenzie, Kenneth Gerard, care Texas Co., Bayonne, N. J. (60). 1911. C

*Mackenzie, Kenneth Kent, 139 North Walnut St., East Orange, N. J. (57). 1911. G

MacKenzie, Marion, Ph. D., Professor of Biology, Temple University, Philadelphia, Pa. (65). F

McKenzie, R. Monroe, Ph. D., Professor of Chemistry and Physics, Parsons College, Fairfield, Iowa. (58). B C D E

Mackie, W. W., 1030 Van Nuys Building, Los Angeles, Cal. (66). M

McKim, W. Duncan, M. D., 1701 18th St., Washington, D. C. (62). K

McKinley, William Brown, M. C., Champaign, Ill. (62).

*McKinney, Thomas Emery, Ph. D., Professor of Mathematics and Astronomy, University of South Dakota, Vermilion, S. D. (50). 1906. A L

*Mackintosh, Roger Sherman, Agricultural Extension Division, University Farm, St. Paul, Minn. (53). 1911. G L

McLaine, Leonard Septimus, Entomological Branch, Department of Agriculture, Ottawa, Canada. (63). F

*McLaren, John Dice, M. D., Professor of Physiology, State University Medical School, Portland, Oregon. (60). 1911. K

*MacLaren, Malcolm, E. E., Professor of Electrical Engineering, Princeton University, Princeton, N. J. (63). 1915. D

McLaughlin, Thomas N., M. D., 1226 N St. N. W., Washington, D. C. (52). H K

McLaury, Howard Lincoln, Professor of Mathematics, State School of Mines, Rapid City, S. D. (50). A

*Maclay, James, Ph. D., Professor of Mathematics, Columbia University, New York, N. Y. (52). 1907. A

McLean, Charlotte F., Ph. D., College of Montana, Deer Lodge, Mont. (54).

MacLean, George, 220 West 42d St., New York, N. Y. (57). B C H I K L

*MacLean, George Edwin, Ph. D., LL. D., 1511 Albemarle Road, Brooklyn, N. Y. (52). 1904. L

*McLendon, Clarence Albertis, South Carolina Agricultural Experiment Station, Clemson College, S. C. (60). 1911. G

*McLennan, John Cunningham, Ph. D., Professor of Physics, University of Toronto, Toronto, Canada. (51). 1903. B

*Macleod, John James Rickard, Professor of Physiology, Western Reserve Medical College, Cleveland, Ohio. (55). 1907. K

*Macloskie, George, Sc. D., LL. D., Emeritus Professor of Biology, Princeton University, Princeton, N. J. (25). 1882. **F G**

McLure, Norman R., C. E., Phoenix Iron Co., Phoenixville, Pa. (60). **D**

*McMahon, James, Professor of Mathematics, Cornell University, Ithaca, N. Y. (36). 1891. **A B**

McMichael, Orville Winthrop, M. D., 4 West Ontario St., Chicago, Ill. (60). **K**

*MacMillan, Daniel P., M. D., Ph. D., Director, Department of Child Study and Pedagogic Instruction, care Board of Education, Tribune Building, Chicago, Ill. (57). 1913. **H L**

MacMillan, David Kent, Office of State Entomologist, Urbana, Ill. (60). **F**

MacMillan, Howard Gove, Greeley, Colo. (65).

McMillan, S. A., Assistant Professor of Agronomy, A. and M. College of Texas, College Station, Texas. (62). **M**

*MacMillan, William Duncan, Ph. D., University of Chicago, Chicago, Ill. (58). 1910. **A**

*McMillin, Emerson, 40 Wall St., New York, N. Y. (37). 1909. **E**

McMinn, Amelia, State Normal School, Milwaukee, Wis. (60). **A**

*McMurphy, James, Stanford University, Cal. (65). 1915. **G**

McMurran, Stockton Mosby, P. O. Box 412, Thomasville, Ga. (62). **G**

*McMurrich, James Playfair, Ph. D., Professor of Anatomy, University of Toronto, Toronto, Canada. (58). 1909. **F K**

*McNair, Fred Walter, Sc. D., President, Michigan College of Mines, Houghton, Mich. (51). 1902. **B D**

*McNairn, William Harvey, McMaster University, Toronto, Canada. (63). 1915. **E**

McNally, James, 538 South Clark St., Chicago, Ill. (58). **E L**

*MacNeal, Ward J., M. D., Ph. D., New York Post-Graduate Medical School, New York, N. Y. (58). 1913. **F G K**

*McNeil, Hiram Colver, Ph. D., 1210 Decatur St., N. W., Washington, D. C. (51). 1911. **B C E**

MacNeil, Prof. Wilbur James, 1831 Punahou St., Honolulu, Hawaii. (60).

McNeill, Dr. Jerome, President, Florida State College for Women, Tallahassee, Fla. (62). **F**

*McNeill, Malcolm, Ph. D., Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill. (32). 1885. **A**

*MacNider, William de Berniere, M. D., Professor of Pharmacology, University of North Carolina, Chapel Hill, N. C. (61). 1911. **K**

McNitt, Robert Joseph, E. E., care Roessler and Hasslacher Chemical Co., Perth Amboy, N. J. (60). **D**

McNulty, George Washington, C. E., 350 West 85th St., New York, N. Y. (51). **D**

*MacNutt, Barry, Associate Professor of Physics, Lehigh University, South Bethlehem, Pa. (47). 1900. **B**

*Macomber, George Stanley, E. E., Room 200, 15 Dey St., New York, N. Y. (60). 1915. **D**

McPeek, Clayton, M. D., College of Medicine, Ohio State University, Columbus, Ohio. (63). **K**

McPherson, Logan Grant, The Players Club, 16 Gramercy Park, New York, N. Y. (62).

*McPherson, William, Sc. D., Ph. D., Professor of Chemistry, Ohio State University, Columbus, Ohio. (45). 1898. **C**

*McRae, Austin Lee, Sc. D., Professor of Physics, School of Mines, Rolla, Mo. (39). 1891. **B D**

*MacVannel, John Angus, Professor of Philosophy and Education, Columbia University, New York, N. Y. (52). 1905. **H I L**

McVey, Frank LeRond, Ph. D., President, University of North Dakota, University, N. D. (60). **L**

McVicker, William B., President, W. B. McVicker Co., 115 Broadway, New York, N. Y. (57). **C D I**

*McWhorter, John English, M. D., 437 West 59th St., New York, N. Y. (62). 1913. **K**

McWilliams, Rev. T. S., 7509 Euclid Ave., Cleveland, Ohio. (63).

*Macy, Valentine Everit, 68 Broad St., New York, N. Y. (49). 1915. **I**

Madeira, Percy C., Jr., 934 Land Title Building, Philadelphia, Pa. (65).

*Maddrill, James Davis, Ph. D., 1 Edwards St., Hartford, Conn. (58). 1914. **A B I**

Madison, Harold Lester, Curator, Park Museum, Providence, R. I. (55). **F L**

Magee, Mrs. Ella W., 5810 Harper Avenue, Chicago, Ill. (61).

Mager, F. Robert, Armour Villa Park, Yonkers, N. Y. (57).

Magers, S. D., Professor of Biology, State Normal School, Marquette, Mich. (58). **F**

*Magie, William Francis, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (35). 1887. **B**

Maglott, Mrs. Eva Sisson, Professor of Mathematics, Ohio Northern University, Ada, Ohio. (58). **A D**

*Magnusson, John Peter, Ph. D., Professor of Chemistry and Physics, Augustana College, Rock Island, Ill. (57). 1911. **B C**

*Magruder, Dr. Egbert W., State Chemist, Virginia Department of Agriculture and Immigration, Richmond, Va. (51). 1906. **C**

Magruder, John H., 1843 S St. N. W., Washington, D. C. (63).

*Magruder, William T., Professor of Mechanical Engineering, Ohio State University, Columbus, Ohio. (37). 1899. **D L**

Mahoney, James Owen, 1900 Crockett St., Dallas, Tex. (58). **A**

Mahoney, Stephen A., M. D., 628 Dwight St., Holyoke, Mass. (51). **K**

Maignen, Prosper Auguste, E. M., 1311 Arch St., Philadelphia, Pa. (54). **D**

Mailliard, Joseph, 1815 Vallejo St., San Francisco, Cal. (65).

Main, William, Engineer and Chemist, Piermont, N. Y. (58). **B C D**

Maines, Eugene L., Phar. D., 195 Exchange St., Rochester, N. Y. (63). **K**

*Major, David R., Ph. D., Professor of Education, Ohio State University, Columbus, Ohio. (51). 1906. **H I L**

*Mall, Franklin Payne, M. D., Sc. D., LL. D., Professor of Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1908. **F H K**

Mallinckrodt, Edward, 3600 No. 2d St., St. Louis, Mo. (29). **C**

*MALLINCKRODT, EDWARD, JR., 16 Westmoreland Place, St. Louis, Mo. (53). 1909. **C D**

*Mallory, Frank Burr, M. D., Associate Professor of Pathology, Harvard Medical School, Boston, Mass. (54). 1906. **F G K**

*Malone, Edward Fall, M. D., Assistant Professor of Anatomy, University of Cincinnati, Cincinnati, Ohio. (62). 1913. **K**

*Maltby, Margaret E., Ph. D., Adjunct Professor of Physics, Barnard College, New York, N. Y. (46). 1898. **B**

Mammen, Ernest, M. D., Bloomington, Ill. (58). **F K**

*Mandel, John Alfred, Sc. D., Professor of Chemistry, Bellevue Hospital Medical College, New York, N. Y. (57). 1908. **C K**

Maneval, Willis Edgar, Ph. D., University, Va. (60). **G**

Mangan, Daniel C., M. D., 95 Park Ave., Brooklyn, N. Y. (50). **F K**

Manierre, Charles E., 352 West End Ave., New York, N. Y. (57).

Manly, John Matthews, Ph. D., Professor of English, University of Chicago, Chicago, Ill. (58).

*Mann, Albert, Ph. D., U. S. Department of Agriculture, Washington, D. C. (43). 1911. **G**

*MANN, BENJAMIN PICKMAN, 1918 Sunderland Place, Washington, D. C. (22). 1874. **F G I**

*Mann, Charles Riborg, Ph. D., Carnegie Foundation, 576 5th Ave., New York, N. Y. (57). 1908. **B L**

Mann, Edward Loring, Mannville, Florida. (65).

*Mann, Gustav, M. D., Professor of Physiology, Tulane University, New Orleans, La. (60). 1911. **K**

Manning, Charles Henry, Chief Engineer, U. S. Navy, Retired, Amoskeag Bank Building, Manchester, N. H. (35). **D**

*Manning, Henry Parker, Ph. D., Assistant Professor of Pure Mathematics, Brown University, Providence, R. I. (55). 1907. **A**

Manning, J. Woodward, Vine Place, Reading, Mass. (47). **G**

*Manns, Thomas Franklin, Ph. D., Professor of Plant Pathology, Delaware College, Newark, Del. (58). 1911. **G**

Mansbach, E., 1292 Madison Ave., New York, N. Y. (57).

*Mansfield, George Rogers, Ph. D., U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

*Manson, Edmund Sewall, Jr., Associate Professor of Astronomy, Ohio State University, Columbus, Ohio. (62). 1911. **A**

*Manson, Marsden, C. E., Ph. D., Commissioner of Public Works, 848 Mills Building, San Francisco, Cal. (51). 1911. D E

*Manwaring, Wilfred Hamilton, M. D., Professor of Bacteriology and Immunity, Leland Stanford Junior University, Stanford University, Cal. (55). 1908. K

Manz, Louis C., M. E., City Hall, Atlantic City, N. J. (63). D

*Mapes, Charles Victor, 143 Liberty St., New York, N. Y. (37). 1911. C

Maphis, Charles Gilmore, Professor of Secondary Education, University of Virginia, Charlottesville, Va. (65). L

Marble, J. Russel, Worcester, Mass. (31). C E

MARBLE, MANTON, Bedford, N. Y. (36).

*Marckworth, Otto Stanley, Director, Ohio Testing Laboratory, Columbus, Ohio. (57). 1911. B C

Marcus, Alexander, Department of Physics, College of the City of New York, N. Y. (66). B

Mark, Clara Gould, Department of Geology, Ohio State University, Columbus, Ohio. (63). E G

*Mark, Edgar Huston, M. D., 626 Lathrop Building, Kansas City, Mo. (39). 1893. B L

*Mark, Edward Laurens, Ph. D., LL. D., Director, Zoological Laboratory, Harvard University, Cambridge, Mass. (50). 1901. F K

Markham, George Dickson, 4961 Berlin Ave., St. Louis, Mo. (50).

Markle, John, E. M., President, G. B. Markle Co., Jeddo, Pa. (57). D

Markoe, Mrs. John, 1630 Locust St., Philadelphia, Pa. (65).

*Marks, Lionel Simeon, Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. (60). 1915. D

Marks, Louis B., E. E., 103 Park Ave., New York, N. Y. (50). D

Marks, Miss Lucy Ballard, 37 Fifth Ave., New York, N. Y. (57).

Marlatt, Miss Abby L., University of Wisconsin, Madison, Wis. (48). C I K L

*Marlatt, Charles Lester, U. S. Department of Agriculture, Washington, D. C. (40). 1895. F

MARLING, ALFRED ERSKINE, 35 West 47th St., New York, N. Y. (57).

Marlow, Frank William, M. D., 200 Highland St., Syracuse, N. Y. (50). H K

MARMOR, REV. J. D., 39 West 118th St., New York, N. Y. (52). E H K

Marple, Charles A., 6801 Euclid Ave., Cleveland, Ohio. (39). B

Marquis, J. Clyde, Editor, *The Country Gentleman*, Independence Square, Philadelphia, Pa. (64). I L

*Marriott, Walter Ross, Department of Mathematics, Swarthmore College, Swarthmore, Pa. (57). 1910. A

Marschall, A. J., Madison, Wis. (60). C

*Marsh, Charles Dwight, Ph. D., U. S. Department of Agriculture, Washington, D. C. (34). 1893. E F G

Marsh, Clarence T. N., 4193 South Halstead St., Chicago, Ill. (58). C

Marsh, H. E., Professor of Physics, University of Redlands, Redlands, Cal. (65). B

*Marsh, Horace Wilmer, Pratt Institute, Brooklyn, N. Y. (60). 1915. A

*Marsh, Howard Daniel, Ph. D., Department of Philosophy, College of the City of New York, New York, N. Y. (58). 1911. H

Marsh, Mrs. Mabel Riley, College of Puget Sound, Tacoma, Wash. (66).

*Marsh, Millard C., 113 High St., Buffalo, N. Y. (54). 1915. F

*Marshall, Charles Edward, Ph. D., Dean, Graduate School and Professor of Microbiology, Massachusetts Agricultural College, Amherst, Mass. (60). 1911. I K

Marshall, Collins, M. D., 2507 Pennsylvania Ave., Washington, D. C. (60). K

*Marshall, Harry Taylor, M. D., Professor of Pathology, University of Virginia, Charlottesville, Va. (63). 1915. K

*Marshall, Henry Rutgers, Sc. D., 3 West 29th St., New York, N. Y. (57). 1911. H

Marshall, Horace Miller, U. S. Engineer Office, Vicksburg, Miss. (51). D

MARSHALL, LOUIS, 47 East 72d St., New York, N. Y. (57).

Marshall, Ruth, Ph. D., 405 Broadway, Normal, Ill. (61). L

*Marshall, William Stanley, Ph. D., Associate Professor of Entomology, University of Wisconsin, Madison, Wis. (63). 1915. F

*Marsters, Vernon Freeman, E. M., care New York and Honduras Rosario Mining Co., San Juancito, Honduras, C. A. (49). 1906. E

Marston, Edwin S., Florham Park, N. J. (50).

Marston, Philip L., E. M., P. O. Box 910, Tonopah, Nevada. (58). C D

*Martin, Artemas, Ph. D., LL. D., U. S. Coast and Geodetic Survey, Washington, D. C. (38). 1890. A B

Martin, Arthur W., University of Nanking, Nanking, China. (58). C

*Martin, Daniel Strobel, Ph. D., Charleston Museum, Charleston, S. C. (23). 1879. E

*Martin, Emilie Norton, Ph. D., Associate Professor of Mathematics, Mt. Holyoke College, South Hadley, Mass. (54). 1906. A

*Martin, Ernest G., Ph. D., Assistant Professor of Physiology, Harvard Medical School, Boston, Mass. (60). 1911. K

*Martin, Fernando Wood, Ph. D., College Park, Lynchburg, Va. (49). 1905. C

*Martin, George Curtis, Ph. D., U. S. Geological Survey, Washington, D. C. (51). 1903. E

Martin, George W., Agricultural Experiment Station, New Brunswick, N. J. (66). G

*Martin, John Nathan, Assistant Professor of Botany, Iowa State College of A. and M. Arts, Ames, Iowa. (65). 1915. G

*Martin, Lillien J., Ph. D., Professor of Psychology, Leland Stanford Junior University, Stanford University, Cal. (54). 1906. H

*Martin, Louis Adolphe, Jr., M. E., Professor of Mechanics, Stevens Institute of Technology, Hoboken, N. J. (53). 1906. A B D L

Martin, Samuel Albert, D. D., Professor of Mental and Moral Philosophy, Lafayette College, Easton, Pa. (66). H

Martin, Prof. Thomas Adams, P. O. Box 597, Commerce, Texas. (62). **A**

*Martin, Walton, M. D., 25 West 50th St., New York, N. Y. (58). 1913. **K**

Martin, William Franklin, C. E., 2428 Stuart St., Berkeley, Cal. (60). **D**

Martin, William Joseph, Ph. D., M. D., President, Davidson College, Davidson, N. C. (60). **C**

Martin, William Lyon, Augusta, Ga. (51). **G**

Marvel, Emery, M. D., 1801 Pacific Ave., Atlantic City, N. J. (60). **K**

*Marvin, Charles Frederick, Chief, U. S. Weather Bureau, Washington, D. C. (39). 1892. **B**

Marvin, H. H., 59 West Adams St., Tufts College, Mass. (63).

Maschke, Alfred S., M. D., 326 Osborne Building, Cleveland, Ohio. (63).

Mason, D. T., U. S. Forest Service, Missoula, Mont. (66). **M**

Mason, Edward Jarvis King, E. E., Suffield, Conn. (60). **D**

Mason, G. F., care H. J. Heinz Co., Pittsburgh, Pa. (65).

Mason, Herbert Warren, 200 Devonshire St., Boston, Mass. (53). **B C D**

*Mason, Max, Ph. D., Professor of Mathematical Physics, University of Wisconsin, Madison, Wis. (58). 1909. **A B**

Mason, Miss Nellie M., Teacher of Science, Abbot Academy, Andover, Mass. (50). **B C G**

Mason, Preston Walker, Purdue University, La Fayette, Ind. (63). **F**

*Mason, William Pitt, M. D., LL. D., Professor of Chemistry, Rensselaer Polytechnic Institute, Troy, N. Y. (31). 1886. **C**

*Massey, Arthur Ballard, Alabama Polytechnic Institute, Auburn, Ala. (63). 1915. **G**

*Mast, Samuel Ottmar, Ph. D., Associate Professor of Zoology, Johns Hopkins University, Baltimore, Md. (52). 1909. **F G**

Mastick, Seabury Cone, Pleasantville, N. Y. (65).

*Matas, Rudolph, M. D., Professor of Surgery, Tulane University, New Orleans, La. (50). 1906. **F H K**

Matausch, Ignaz, American Museum of Natural History, New York, N. Y. (57).

Mateer, Horace N., M. D., Ph. D., Professor of Biology, University of Wooster, Wooster, Ohio. (36). **E F K**

Matheny, William Alderman, Ph. D., Professor of Civic Biology and Botany, Ohio University, Athens, Ohio. (61). **G H**

Mather, Enoch, M. D., LL. D., 228 Gratiot Ave., Mt. Clemens, Mich. (58). **K**

Mather, Kirtley F., 5344 Woodlawn Ave.. Chicago. Ill. (63). **E**

Mather, Samuel, E. M., Western Reserve Building, Cleveland, Ohio. (63). **D**

*Mather, William Tyler, Ph. D., Professor of Physics, University of Texas, Austin, Texas. (60). 1910. **B**

*Matheson, Robert, 45 East Ave., Ithaca, N. Y. (58). 1915. **F**

Matheson, William John, 182 Front St., New York, N. Y. (54). **C I**

*Mathews, Albert Prescott, Ph. D., Professor of Physiological Chemistry, University of Chicago, Chicago, Ill. (57). 1908. **C K L**

Mathews, Clarence W., Professor of Horticulture, State University of Kentucky, Lexington, Ky. (66). **G**

Mathews, Hubert Berton, Professor of Physics, South Dakota State College of A. and M. Arts, Brookings, S. D. (58). **B**

Mathews, Miss Jane, 318 West North Ave., Pittsburgh, N. S., Pa. (60). **A**

*Mathews, John Alexander, Sc. D., Ph. D., Managing Director, Halcomb Steel Co., Syracuse, N. Y. (50). 1902. **B C D E I L**

Mathews, Miss Mary Elizabeth, 149 State St., Painesville, Ohio. (41). **G**

Mathewson, Edward Payson, 422 Hickory St., Anaconda, Mont. (57). **C D**

Matlack, Charles, 85 Berkeley St., West Newton, Mass. (27). **I**

*Matson, George Charlton, U. S. Geological Survey, Washington, D. C. (60). 1911. **E**

Matson, Ralph C., M. D., 1021 Corbett Building, Portland, Ore. (60). **K**

*Matthes, Francois Emile, U. S. Geological Survey, Washington, D. C. (52). 1909. **D E**

*Matthew, William Diller, Ph. D., American Museum of Natural History, New York, N. Y. (54). 1906. **E**

*Matthews, Albert, Hotel Oxford, Boston, Mass. (51). 1913. **H**

Matthews, Miss Elizabeth Mary, 427 14th St., Portland, Oregon. (64). **I**

*Matthews, Joseph Merritt, Ph. D., 5 Berwyn St., East Orange, N. J. (60). 1911. **C**

Matthews, Leigh Meryle, M. E., McClure, Ill. (64). **D**

*Matthews, Samuel A., Assistant Professor of Experimental Therapeutics, University of Chicago, Chicago, Ill. (58). 1909. **H**

*Mattill, Henry Albright, Ph. D., Assistant Professor of Nutrition, University of California, Berkeley, Cal. (60). 1914. **C K**

Mattison, Fitch C. E., M. D., 295 West California St., Pasadena, Cal. (51). **K**

*Mattson, John Danskin, 2017 I St., N. W., Washington, D. C. (58). 1913. **C**

*Maurer, Edward Rose, Professor of Mechanics, University of Wisconsin, Madison, Wis. (53). 1906. **D**

*Maury, Carlotta J., Ph. D., Hastings upon Hudson, N.Y. (57). 1911. **E F**

Mavor, James Watt, Ph. D., Department of Zoology, University of Wisconsin, Madison, Wis. (66). **F**

*Maxim, Hudson, Sc. D., Maxim Park, Landing, N. J. (56). 1911. **C**

*Maxon, William Ralph, U. S. National Museum, Washington, D. C. (49). 1906. **G**

*Maxwell, Samuel Steen, Ph. D., Associate Professor of Physiology, University of California, Berkeley, Cal. (65). 1915. **K**

*Mayer, Alfred Goldsborough, M. E., Sc. D., 276 Nassau St., Princeton, N. J. (47). 1900. **F**

Mayer, Edwin Charles, Department of Physics, Cornell University, Ithaca, N. Y. (60). **B**

*Maynard, Thomas Poole, Ph. D., 1321A Hurt Building, Atlanta, Ga. (61). 1911. E

*Mayo, Charles Horace, M. D., LL. D., Rochester, Minn. (63). 1914. K

*Mayo, William James, M. D., Sc. D., LL. D., 427 West College St., Rochester, Minn. (63). 1914. K

*Mead, Albert Davis, Sc. D., Ph. D., Professor of Biology, Brown University, Providence, R. I. (52). 1905. F

Mead, Charles A., 291 Essex Ave., Orange, N. J. (60). A

*Mead, Daniel Webster, C. E., Professor of Engineering, University of Wisconsin, Madison, Wis. (64). 1915. D

*Mead, George Herbert, Professor of Philosophy, University of Chicago, Chicago, Ill. (58). 1910. L

Mead, Marvin Hulst, 382 River Drive, Passaic, N. J. (57). D F G

*Mead, Warren J., Assistant Professor of Geology, University of Wisconsin, Madison, Wis. (62). 1914. E

Meader, Fred Marlen, M. D., State Department of Health, Albany, N. Y. (63). K

Meagher, James Luke, D.D. 110 East Ave., Long Island City, N. Y. (65).

Means, Charles Johnson, 29 Marlborough St., Boston, Mass. (60).

Means, James, 196 Beacon St., Boston, Mass. (47).

Mears, Brainerd, Ph. D., Assistant Professor of Chemistry, Williams College, Williamstown, Mass. (62). C

*MEARS, JAMES EWING, M. D., LL. D., 1535 Land Title Building, Philadelphia, Pa. (56). 1911. I

MECHAM, JOHN B., 1917 Harris Trust Building, 111 West Monroe St., Chicago, Ill. (62). A E H

*Mecklin, John M., Head, Department of Philosophy, University of Pittsburgh, Pittsburgh, Pa. (60). 1915. H

Medsger, Oliver Perry, 9 Columbia Ave., Arlington, N. J. (50). G

*Meeker, George Herbert, Ph. D., LL. D., Professor of Chemistry, Medico-Chirurgical College, Philadelphia, Pa. (57). 1911. C L

Meeks, William D., M. D., Massie's Mill, Va. (60). K

Mees, C. E. Kenneth, Sc. D., 55 Huntington Park, Rochester, N. Y. (66).

*Mees, Carl Leo, M. D., Ph. D., President, Rose Polytechnic Institute, Terre Haute, Ind. (24). 1876. B C

*Mehl, Maurie G., Science Hall, University of Wisconsin, Madison, Wis. (63). 1915. E

Meier, Henry F. A., Assistant Professor of Botany, Syracuse University, Syracuse, N. Y. (65). G

*Meigs, Edward B., M. D., Wistar Institute of Anatomy, Philadelphia, Pa. (53). 1914. K

Meigs, Katherine H., 70 Herkimer St., Brooklyn, N. Y. (61).

*Meinecke, Emilio P., Ph. D., U. S. Forest Service, San Francisco, Cal. (62). 1913. G M

*Melander, Axel Leonard, Ph. D., Professor of Entomology, State College of Washington, Pullman, Wash. (60). 1914. **F**

*MELCHER, ARTHUR CLARKE, 58 Bowen St., Newton Center, Mass. (58). 1911. **B C**

Melchers, Leo E., 900 Leavenworth St., Manhattan, Kansas. (65). **G**

*Melhus, Irving E., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). 1915. **G**

*Mell, Patrick Hues, Ph. D., LL. D., 165 East 10th St., Atlanta, Ga. (39). 1895. **E G**

Mellor, Alfred, President, Mellor and Rittenhouse Co., 152 West Walnut Lane, Germantown, Pa. (51).

*Mellus, E. Lindon, M. D., 12 Fuller St., Brookline, Mass. (58). 1909. **F H K**

*Meltzer, Samuel James, M. D., LL. D., Head, Department of Physiology and Pharmacology, Rockefeller Institute for Medical Research, New York, N. Y. (49). 1901. **K**

*Melville, Carey Eyster, Assistant Professor of Mathematics and Physics, Clark College, Worcester, Mass. (63). 1915. **A B**

Memminger, C. Gustavus, E. M., Lakeland, Fla. (60). **D**

*Mendel, Lafayette Benedict, Ph. D., Professor of Physiological Chemistry, Sheffield Scientific School, New Haven, Conn. (53). 1907. **C K**

*Mendelson, Walter, M. D., 159 West 74th St., New York, N. Y. (57). 1909. **K**

*Mendenhall, Charles Elwood, Ph. D., Professor of Physics, University of Wisconsin, Madison, Wis. (48). 1900. **B**

Mendenhall, E. W., Clintonville, Ohio. (63).

*MENDENHALL, THOMAS CORWIN, Sc. D., Ph. D., LL. D., 329 No. Chestnut St., Ravenna, Ohio. (20). 1874. **B**

*Mendenhall, Walter Curran, U. S. Geological Survey, Washington, D. C. (52). 1903. **D E I**

Menefee, Evalyn L., M. D., Granbury, Tex. (57). **B C I K L**

*Menge, George Albert, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

*Mengel, Prof. Levi Walter, Director, Reading Public Museum and Art Gallery, Reading, Pa. (52). 1914. **E F**

Menges, Franklin, Ph. D., 233 East Philadelphia St., York, Pa. (58). **D L**

*Menzies, Alan W. C., Ph. D., Professor of Chemistry, Princeton University, Princeton, N. J. (60). 1911. **C**

Menzies, Mrs. Alan W. C., 136 Woodland Ave., Oberlin, Ohio. (64).

Menzies, R. H., 320 California St., San Francisco, Cal. (65).

Mercer, Alfred Clifford, M. D., 324 Montgomery St., Syracuse, N.Y. (60). **K**

*Mercer, William Fairfield, Ph. D., Professor of Biology, Ohio University, Athens, Ohio. (50). 1913. **F K**

Mercur, William H., M. D., 5th Ave. and St. James St., Pittsburgh, Pa. (64). **K**

Meredith, Hugh B., M. D., Superintendent, State Hospital, Danville, Pa. (58). **K**

*Merigold, Benjamin S., Ph. D., Assistant Professor of Chemistry, Clark University, Worcester, Mass. (56). 1909. **C**

Merrell, Miss Caroline Wallace, 2950 Frankford Ave., Philadelphia, Pa. (54). **G**

Merrell, William Dayton, Ph. D., Assistant Professor of Biology, University of Rochester, Rochester, N. Y. (58). **F G L**

*Merriam, Clinton Hart, M. D., 1919 16th St., N. W., Washington, D. C. (49). 1900. **F G H**

*Merriam, Edmund Sawyer, Ph. D., Professor of Chemistry, Marietta College, Marietta, Ohio. (56). 1910. **C**

*Merriam, John Campbell, Ph. D., Professor of Paleontology, University of California, Berkeley, Cal. (52). 1905. **E F**

Merrick, E. D., 11th St., 3d to 4th Aves., New Brighton, Pa. (57).

Merrill, Burton J., M. D., Stillwater, Minn. (60). **K**

Merrill, E. K., 10 Hill Crest Court, Berkeley, Cal. (65).

Merrill, Edward O., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (65). **C**

*Merrill, Elmer Drew, 3800 14th St., Washington, D. C. (50). 1909. **G**

*MERRILL, FREDERICK J. H., Ph. D., 631 Higgins Building, Los Angeles, Cal. (35). 1911. **A**

*Merrill, Helen Abbott, Ph. D., Associate Professor of Mathematics, Wellesley College, Wellesley, Mass. (58). 1911. **A**

*Merrill, Joseph Francis, Ph. D., Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah. (50). 1908. **B D**

*Merrill, Lucius Herbert, Sc. D., Professor of Biological and Agricultural Chemistry, University of Maine, Orono, Me. (50). 1909. **C**

Merrill, Robert Hall, C. E., 70 North Allen St., Albany, N. Y. (60). **D**

MERRILL, MRS. WINIFRED EDGERTON, Ph. D., New Rochelle, N. Y. (35). **A**

*Merriman, Mansfield, Sc. D., Ph. D., LL. D., 1071 Madison Ave., New York, N. Y. (32). 1885. **A D L**

*Merritt, Ernest, Professor of Physics, Cornell University, Ithaca, N. Y. (33). 1890. **B**

*Merrow, Miss Harriet Lathrop, Professor of Botany, Rhode Island State College, Kingston, R. I. (44). 1906. **G**

Mersereau, Gail, 738 West End Ave., New York, N. Y. (60). **C**

*Mershon, Ralph Davenport, E. E., M. E., 80 Maiden Lane, New York, N. Y. (50). 1906. **D**

Mertie, John Beaver, Jr., Ph. D., U. S. Geological Survey, Washington, D. C. (63). **E**

*Merz, Albert R., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (58). 1915. C

Meservey, Arthur Bond, Department of Physics, Dartmouth College, Hanover, N. H. (63). B

*Messenger, James Franklin, Ph. D., University of Vermont, Burlington, Vt. (52). 1905. H L

*Metcalf, Haven, Ph. D., U. S. Department of Agriculture, Washington, D. C. (52). 1904. G

*Metcalf, Maynard Mayo, Ph. D., Professor of Zoology, Oberlin College, Oberlin, Ohio. (50). 1901. F

*Metcalf, Wilmot Vernon, Ph. D., Assistant Professor of Physics, Fisk University, Nashville, Tenn. (50). 1911. B C

Metcalf, Zeno P., Professor of Zoology and Entomology, N. C. College of A. and M. Arts, West Raleigh, N. C. (64).

*Metz, Abraham Louis, M. D., Professor of Chemistry, Tulane University, New Orleans, La. (55). 1909. C K

*Metzler, William Henry, Ph. D., Professor of Mathematics, Syracuse University, Syracuse, N. Y. (45). 1899. A L

*Meyer, Adolf, M. D., LL. D., 101 Edgevale Road, Roland Park, Md. (52). 1905. K

Meyer, Alfred, M. D., 785 Madison Ave., New York, N. Y. (57). K

*Meyer, Arthur William, M. D., 1116 Ramona St., Palo Alto, Cal. (58). 1911. F K

Meyer, Erwin E. A. G., Ph. D., care Morgan and Wright, Detroit, Mich. (63).

*Meyer, Gustave Maurice, Ph. D., 100 Wilson Ave., Flushing, L. I., N. Y. (57). 1908. K

Meyer, H. Conrad, 5017 Greene St., Germantown, Philadelphia, Pa. (63). G

Meyer, John Franklin, Ph. D., Bureau of Standards, Washington, D. C. (51). C

*Meyer, Max, Ph. D., Professor of Psychology, University of Missouri, Columbia, Mo. (49). 1901. H L

*Meyer, William Ferdinand, Latitude Observatory, Ukiah, Cal. (65). 1915. A

*Meyer, Willy, M. D., Professor of Surgery, New York Post-Graduate Medical School and Hospital, New York, N. Y. (57). 1909. K

Meyers, Charles Emory, Associate Professor of Horticulture, Pennsylvania State College, State College, Pa. (63). G

Meyers, Charles H., M. D., 1556 Elm St., Cincinnati, Ohio. (60). K

Meyers, Ira Benton, Francis Parker School, North Halsted Station, Chicago, Ill. (58). E L

*Meylan, George Louis, M. D., Adjunct Professor of Physical Education, Columbia University, New York, N. Y. (53). 1907. H K L

Meyrowitz, Emil B., 237 5th Avenue, New York, N. Y. (57). **A B C D**

*Mezes, Sidney Edward, Ph. D., President, College of the City of New York, New York, N. Y. (50). 1901. **H I**

*Michael, Ellis LeRoy, Marine Biological Laboratory, La Jolla, Cal. (57). 1915. **F**

*Michael, Louis Guy, Torokatickaya 9, Kishinev, Russia. (58). 1911. **C**

*Michelson, Albert Abraham, Sc. D., Ph. D., LL. D., Head, Department of Physics, University of Chicago, Chicago, Ill. (26). 1879. **B**

*Michelson, Truman, Bureau of American Ethnology, Washington, D. C. (62). 1912. **H**

*Middlekauff, George Wiles, Ph. D., Bureau of Standards, Washington, D. C. (57). 1908. **B**

Middleton, Austin R., 3640 Elm Ave., Baltimore, Md. (63). **F G**

Milbrath, David Gallus, North Dakota Agricultural College, Fargo, N. D, (62). **G**

*Miles, Egbert J., Ph. D., 115 Brownell St., New Haven, Conn. (57). 1911. **A**

Miles, George F., Fairfax, Va. (54). **E G**

Miles, George W., Consulting Chemist, 29 Central St., Boston, Mass. (58). **C**

Miles, J. Walter, E. E., Westinghouse E. and M. Co., East Pittsburgh, Pa. (66). **D**

Miles, Philip B., 1265 Kensington Ave., Salt Lake City, Utah. (65).

*Milham, Willis I., Ph. D., Professor of Astronomy, Williams College, Williamstown, Mass. (47). 1905. **A B**

Militz, Mrs. Annie Rix, 1300 Grand St., Alameda, Cal. (65). **H**

Millar, Alexander M., Estacion Experimental Agricola, Tucuman, Argentina, S. A. (65). **G M**

Millar, C. Ernest, Kansas State Agricultural College, Manhattan, Kans. (66). **C M**

Millar, John M., Escanaba, Mich. (50). **E G**

*Millberry, Guy Stillman, 1043 Clayton St., San Francisco, Cal. (65). 1915.

Millen, John D., E. M., General Manager, Mt. Bischoff Tin Mining Co., Waratah, Tasmania. (60). **C D**

*Miller, Adam Marion, M. D., Long Island College Hospital, Brooklyn, N. Y. (60). 1911. **K**

Miller, Alice Cecile, 418 Mildred St., Montgomery, Ala. (65). **E H I L**

*Miller, Arthur McQuiston, Professor of Geology and Zoology, State University of Kentucky, Lexington, Ky. (45). 1898. **E F**

*Miller, Benjamin LeRoy, Ph. D., Professor of Geology, Lehigh University, South Bethlehem, Pa. (50). 1907. **E**

Miller, Charles Ransom, LL. D., 21 East 9th St., New York, N. Y. (57).

Miller, Charles Winthrop, Shawnee on Delaware, Pa. (60). **F**

Miller, D. McL., M. D., Oconomowoc, Wis. (60). **K**

*Miller, Dayton Clarence, Sc. D., Professor of Physics, Case School of Applied Science, Cleveland, Ohio. (44). 1898. **A B**

Miller, Dickinson Sergeant, Sc. D., Ph. D., 4 Lorillard Hall, Chelsea Square, New York, N. Y. (63). **H**

*Miller, Edgar C. L., M. D., University College of Medicine, Richmond Va. (58). 1911. **K**

Miller, Edgar Grim, Jr., Ph. D., 346 West 57th St., New York, N. Y. (65). **C K**

*Miller, Edwin C., Ph. D., Kansas State Agricultural College, Manhattan, Kans. (65). 1915. **G**

Miller, Mrs. Elisabeth C. T., 3738 Euclid Ave., Cleveland, Ohio. (66). **F**

MILLER, EMERSON R., Chemist, Pharmaceutical Experiment Station, University of Wisconsin, Madison, Wis. (52). **C**

Miller, Eric Rexford, Weather Bureau, Madison, Wis. (58). **A B**

Miller, Ernest Allen, 113 North Tioga St., Ithaca, N. Y. (60). **A**

Miller, F. Joseph, M. E., 1312 Bristol St., Philadelphia, Pa. (60). **G**

Miller, Frank E., M. D., 22 West 31st St., New York, N. Y. (65). **K**

*Miller, Frank Ellsworth, Ph. D., Professor of Mathematics, Otterbein University, Westerville, Ohio. (44). 1909. **A**

Miller, Fred. Anderson, 3641 Kenwood Ave., Indianapolis, Ind. (63). **G**

*Miller, Fred J., Factory Manager, Union Typewriter Co., P. O. Box 27, Center Bridge, Pa. (51). 1906. **D I**

*Miller, George Abram, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (46). 1898. **A**

Miller, George J., Professor of Geography, State Normal School, Mankato, Minn. (63). **E L**

MILLER, GEORGE NORTON, M. D., 811 Madison Ave., New York, N. Y. (50). **H I K**

Miller, Henry Huntington, E. M., Apartado 95, Guanajuato, Mexico. (50). **C D E**

Miller, Henry Lanark, C. E., Casilla 21, Mendoza, Argentina, S. A. (60). **D**

Miller, Herbert C., North Pacific College, Portland, Oregon. (66).

Miller, Irving, Hillsboro, Oregon. (65).

Miller, James Shannon, Professor of Mathematics, Emory and Henry College, Emory, Va. (51). **A B**

*Miller, John Anthony, Ph. D., Professor of Mechanics and Astronomy, Swarthmore College, Swarthmore, Pa. (31). 1906. **A D**

*Miller, John Craig, M. D., Professor of Natural Science, Lincoln University, Pa. (50). 1906. **B C**

*Miller, Joseph Leggett, M. D., 5315 Greenwood Ave., Chicago, Ill. (60). 1911. **K**

*Miller, Miss Louise Klein, 2540 Prospect Ave., Cleveland, Ohio. (50). 1906. **E G I L**

*Miller, Loye Holmes, Professor of Biology, State Normal School, Los Angeles, Cal. (64). 1915. **F**

Miller, Merritt Finley, Professor of Agronomy, University of Missouri, Columbia, Mo. (58). **G M**

Miller, Milo G., M. D., 4018 Spring Garden St., Philadelphia, Pa. (63). **K**

Miller, Newman, Director, The University of Chicago Press, 5515 Woodlawn Ave., Chicago, Ill. (58). **E I**

Miller, Newton, Ph. D., Wheaton College, Norton, Mass. (63). **F**

Miller, Ralph Chafee, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **G**

Miller, Raymond M., 7 Knight St., Collingswood, N. J. (66). **C F**

Miller, Shirley Putnam, Professor of Zoology, South Dakota State College, Brookings, S. D. (58). **F**

Miller, Spencer, C. E., South Orange, N. J. (65). **D**

*Miller, W. Lash, Ph. D., Professor of Physical Chemistry, University of Toronto, Toronto, Canada. (60). 1910. **C**

*Miller, Willet G., LL. D., Bureau of Mines, Toronto, Canada. (58). 1910. **E**

*Miller, William Snow, M. D., Professor of Anatomy, University of Wisconsin, Madison, Wis. (42). 1894. **F**

*Millikan, Robert Andrews, Ph. D., Sc. D., Professor of Physics, University of Chicago, Chicago, Ill. (58). 1910. **B**

*Millis, Col. John, Corps of Engineers, U. S. A., U. S. Engineer Office, Newport, R. I. (48). 1906. **A B D E**

Mills, Frank Smith, Professor of Geology, Province Lake, N. H. (52). **D E**

*Mills, James Edward, Ph. D., Le Conte Building, University of South Carolina, Columbia, S. C. (52). 1910. **C**

Mills, Knower, Forest Service, Nevada City, Cal. (65). **G M**

Mills, Owen W., Professor of Biology, Westminster College, New Wilmington, Pa. (65). **F**

*Mills, William C., Page Hall, Ohio State University, Columbus, Ohio. (48). 1902. **F H**

*Millspaugh, Charles Frederic, M. D., Curator, Department of Botany, Field Museum of Natural History, Chicago, Ill. (57). 1907. **E G L**

MILNE, DAVID, Schoolhouse Lane, Germantown, Philadelphia, Pa. (51).

Milroy, Ina A., Ph. D., 1617 Blanding St., Columbia, S. C. (60). **B C**

*Miner, James Burt, Ph. D., Asst. Professor of Psychology, University of Minnesota, Minneapolis, Minn. (52). 1906. **H L**

Miner, Roy Waldo, Assistant Curator of Invertebrate Zoology, American Museum of Natural History, New York, N. Y. (57). **F**

MINNS, MISS SUSAN, 14 Louisburg Square, Boston, Mass. (32).

Minot, Miss L. S., 245 Marlborough St., Boston, Mass. (60).

Miser, H. D., U. S. Geological Survey, Washington, D. C. (65). **E**

Mitchell, Andrew S., Chief, Food and Drug Inspection Laboratory, Old Capitol Building, St. Paul, Minn. (61). **C**

MITCHELL, ARTHUR M., 68 Wall St., New York, N. Y. (57).

Mitchell, Charles Anderson, Ph. D., Bellevue, Nebr. (58). **H**

Mitchell, David, Ph. D., 36th St. and Powelton Ave., Philadelphia, Pa. (65). **H**

Mitchell, Evelyn Groesbeek, 604 Harvard St., Washington, D. C. (54). **F**

Mitchell, George, E. M., 1367 South Figueroa St., Los Angeles, Cal. (60). **D**

Mitchell, Guy K., E. E., 123 South Calvert St., Baltimore, Md. (60). **D**

*Mitchell, Henry Bedinger, Professor of Mathematics, Columbia University, New York, N. Y. (50). 1906. **A D**

MITCHELL, JOHN, JR., President, The Mechanics Savings Bank, Richmond, Va. (65).

*Mitchell, John Pearce, Ph. D., Assistant Professor of Chemistry, Leland Stanford Junior University, Stanford University, Cal. (51). 1911. **C**

Mitchell, Langdon Elwyn, 2320 De Lancey Place, Philadelphia, Pa. (65).

Mitchell, Oliver Wendell Holmes, M. D., Assistant Professor of Bacteriology, Syracuse Medical College, Syracuse, N. Y. (64). **K**

*Mitchell, Samuel Alfred, Ph. D., Director, Leander McCormick Observatory, University of Virginia, Charlottesville, Va. (52). 1906. **A B**

*Mitchell, Ulysses Grant, Ph. D., Associate Professor of Mathematics, University of Kansas, Lawrence, Kans. (63). 1915. **A**

Mitchell, Walter Alfred, Professor of Physics, Soochow University, Soochow, China. (62). **B**

*Mitchell, Walter Mann, Ph. D., 112 North 34th St., Philadelphia, Pa. (54). 1908. **A B**

Mitchell, William Francis, M. D., Lancaster, Mo. (51). **H**

*Mitzmain, Maurice Bruin, M. D., U. S. Public Health Service, New Orleans, La. (58). 1914. **F**

Mixer, Charles Adam, C. E., Rumford Falls Power Co., Rumford, Me. (51). **D**

*Mixer, Frederick Knowlton, 14 Tillinghast Place, Buffalo, N. Y. (35). 1911. **E**

MIXTER, GEORGE, 2d, 180 Marlborough St., Boston, Mass. (60).

*Mixter, Samuel Jason, M. D., 180 Marlborough St., Boston, Mass. (58). 1909. **K**

*Miyake, Kiichi, Ph. D., Agricultural College, Imperial University, Tokyo, Japan. (51). 1903. **G**

*Moenkhaus, William J., Ph. D., Professor of Physiology, Indiana University, Bloomington, Ind. (51). 1903. **F K**

*Moerk, Frank Xavier, 145 North 10th St., Philadelphia, Pa. (60). 1911. **C**

Moffat, Will Sayer, M. D., 105 So. La Salle St., Chicago, Ill. (58). **G**

*Moffit, Fred. H., U. S. Geological Survey, Washington, D. C. (63). 1914. **E**

Mohler, Fred Loomis, 261 W. Hoffman St., Baltimore, Md. (65). **B**

*Mohler, John Frederick, Ph. D., Professor of Physics, Dickinson College, Carlisle, Pa. (44). 1905. **B**

Mohr, Louis, M. E., 349 West Illinois St., Chicago, Ill. (50). **A B D E F H I K L**

Mojonnier, Timothy, Walla Walla, Wash. (52). **C**

*Moler, George Sylvanus, Professor of Physics, Cornell University, Ithaca, N. Y. (38). 1892. **B**

*Molera, Eusebius Joseph, C. E., 2025 Sacramento St., San Francisco, Cal. (50). 1915. **D**

Monae-Lesser, Dr. A., 164 West 72d St., New York, N. Y. (57).

Monfort, Wilson F., Chemist to Water Commission, 4458 Washington Boulevard, St. Louis, Mo. (48). **C**

Monroe, Joseph Eaton, Professor of Physics and Chemistry, Montana State Normal College, Dillon, Mont. (50). **B C**

*Monroe, Paul, Ph. D., LL. D., Professor of History of Education, Columbia University, New York, N. Y. (57). 1910. **I L**

*Monroe, Will Seymour, Professor of Psychology, State Normal School, Montclair, N. J. (49). 1901. **H L**

Monsen, Frederick Inman, Salmagundi Club, 14 West 12th St., New York, N. Y. (60). **H**

*Montague, William Pepperell, Ph. D., Adjunct Professor of Philosophy, Columbia University, New York, N. Y. (54). 1906. **H I**

Montgomery, Edmund B., M. D., 134 North 8th St., Quincy, Ill. (51). **I K**

*Montgomery, Edward Gerrard, Professor of Field Crops, Cornell University, Ithaca, N. Y. (64). 1915. **G M**

*Montgomery, Henry, Ph. D., Curator of Museum, University of Toronto, Toronto, Canada. (54). 1907. **E F H**

Montgomery, John R., 959 The Rookery, Chicago, Ill. (58).

Montgomery, William John, Ph. D., 161 Devonshire St., Boston, Mass. (63) **A**

*Moodie, Roy Lee, Ph. D., Assistant Professor of Zoology, University of Kansas, Lawrence, Kans. (60). 1915. **F**

*Moody, Agnes Claypole, Ph. D., 2826 Garber St., Berkeley, Cal. (46). 1899. **F**

Moody, Graham B., 1829 Berryman St., Berkeley, Cal. (65).

*Moody, Herbert Raymond, Ph. D., Secretary, College of the City of New York, New York, N. Y. (58). 1911. **C**

Moody, Julia Eleanor, 6 Summit Road, Wellesley, Mass. (65). **F**

*Moody, Mary Blair, M. D., 2826 Garber St., Berkeley, Cal. (25). 1911. **E F**

*Moody, Robert Orton, M. D., Assistant Professor of Anatomy, University of California, Berkeley, Cal. (35). 1892. **K L**

Moody, W. L., 1829 Berryman St., Berkeley, Cal. (65).

*Moody, William Albion, Professor of Mathematics, Bowdoin College, Brunswick, Me. (50). 1906. **A**

*Mooers, Charles Ansel, Professor of Chemistry and Agronomy, University of Tennessee, Knoxville, Tenn. (55). 1911. **C M**

Mook, Charles Craig, American Museum of Natural History, New York, N. Y. (62). **E F**

*Moon, Frank F., Professor of Forest Engineering, N. Y. State College of Forestry, Syracuse, N. Y. (63). 1915. **G M**

Moore, Mrs. Alice Rogers, 132 Winsor Ave., Watertown, Mass. (63). **B**

*Moore, Andrew Charles, LL. D., Professor of Biology and Geology, University of South Carolina, Columbia, S. C. (54). 1909. **F G**

Moore, Mrs. Arthur H., P. O. Box 384, St. John's, Quebec, Canada. (32). **H**

*Moore, Arthur Russell, Ph. D., Biological Laboratory, Bryn Mawr, Pa. (63). 1915. **F**

Moore, Barrington, 40 East 83d St., New York, N. Y. (64). **G**

*Moore, C. C., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C**

*Moore, Clarence Bloomfield, 1321 Locust St., Philadelphia, Pa. (44). 1897. **H**

*Moore, Edward James, Ph. D., Associate Professor of Physics, Oberlin College, Oberlin, Ohio. (63). 1915. **B**

*Moore, Eliakim Hastings, Sc. D., Ph. D., LL. D., Professor of Mathematics, University of Chicago, Chicago, Ill. (52). 1903. **A B**

*Moore, Elwood S., Ph. D., Professor of Geology and Mineralogy, Pennsylvania State College, State College, Pa. (61). 1911. **E**

Moore, Emmeline, Ph. D., Department of Botany, Vassar College, Poughkeepsie, N. Y. (64). **F G**

*Moore, Ernest Carroll, Ph. D., Professor of Education, Harvard University, Cambridge, Mass. (63). 1915. **L**

*Moore, Frank C., Associate Professor of Mathematics, New Hampshire College, Durham, N. H. (58). 1915. **A**

Moore, Frank C., 70 Columbia Heights, Brooklyn, N. Y. (61). **E**

*Moore, George Thomas, Ph. D., Director, Missouri Botanical Garden, St. Louis, Mo. (49). 1901. **G**

Moore, James Alexander, Principal, Walker County High School, Jasper, Ala. (63).

Moore, John Bassett, LL. D., 267 West 73d St., New York, N. Y. (65).

*Moore, John Percy, Ph. D., Professor of Zoology, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **F**

*Moore, Joseph Haines, Ph. D., Lick Observatory, Mt. Hamilton, Cal. (60). 1910. **A B**

*Moore, Richard Bishop, U. S. Bureau of Mines, 502 Foster Building, Denver, Colo. (60). 1911. **C**

Moore, Richard Mott, 74 South Fitzhugh St., Rochester, N. Y. (60). **F**

Moore, Robert, C. E., 61 Vandeventer Place, St. Louis, Mo. (51). **D I**

Moore, Stanley H., M. E., 505 Selma Ave., Webster Groves, Mo. (50). **A D**

*Moore, Veranus Alva, M. D., Dean, New York State Veterinary College, Ithaca, N. Y. (57). 1911. **K L**

Moore, William, 2295 Doswell Ave., St. Anthony Park, St. Paul, Minn. (60). G

*Moorehead, Warren King, Curator of Museum, Phillips Academy, Andover, Mass. (38). 1890. H

*More, Louis Trenchard, Ph. D., Professor of Physics, University of Cincinnati, Cincinnati, Ohio. (58). 1910. B

*Morgan, A. C., U. S. Department of Agriculture, Washington, D. C. (54). 1914. F

Morgan, Anna H., Ph. D., Mt. Holyoke College, So. Hadley, Mass. (63). F

Morgan, Arthur E., C. E., City National Bank Building, Dayton, Ohio. (62). D

Morgan, F. Corlies, Montgomery Ave., Chestnut Hill, Philadelphia, Pa. (65).

*Morgan, H. Alexander, Professor of Zoology and Entomology, University of Tennessee, Knoxville, Tenn. (50). 1906. F

*Morgan, J. Livingston R., Ph. D., Professor of Physical Chemistry, Columbia University, New York, N. Y. (58). 1910. C

*Morgan, James Dudley, M. D., 919 15th St. N. W., Washington, D. C. (60). 1911. K

Morgan, James Oscar, Ph. D., Professor of Agronomy, A. and M. College of Texas, College Station, Texas. (65). M

*Morgan, Thomas Hunt, Ph. D., LL. D., Professor of Experimental Zoology, Columbia University, New York, N. Y. (54). 1906. F

*Morgan, William Conger, Ph. D., Reed College, Portland, Oregon. (52). 1906. C L

Morgan, William Fellowes, Short Hills, N. J. (27). I L

Moriarta, Douglas C., M. D., 511 Broadway, Saratoga Springs, N. Y. (60). K

Morison, Robert S., 17 Farrar St., Cambridge, Mass. (60).

*Moritz, Robert Edouard, Ph. D., Professor of Mathematics, University of Washington, Seattle, Wash. (65). 1915. A

*Morley, Edward Williams, Sc. D., Ph. D., LL. D., West Hartford, Conn. (18). 1876. B C E

Morrey, Charles Bradfield, M. D., Professor of Bacteriology, Ohio State University, Columbus, Ohio. (48). F

*Morrill, Albro David, Professor of Biology, Hamilton College, Clinton, N. Y. (60). 1911. F

*Morrill, Austin Winfield, Ph. D., State Entomologist, Phoenix, Ariz. (54). 1906. F

*Morrill, Charles Virgin, Ph. D., 338 East 26th St., New York, N. Y. (56). 1913. F

Morris, Mrs. Charles Ellis, 2106 Spruce St., Philadelphia, Pa. (65).

*Morris, Earl L., Hall of Records, San José, Cal. (58). 1914. F G

Morris, Frederic K., 485 Central Park, West, New York, N. Y. (58). E

Morris, George E., 34 Appleton St., Waltham, Mass. (61).

Morris, Harry, State Experiment Station, Baton Rouge, La. (63). **K**
Morris, Henry Crittenden, 924 Marquette Building, Chicago, Ill. (58). **I**
Morris, Henry Lewis, 32 Liberty St., New York, N. Y. (49).
Morris, James Lucien, 5274 Waterman Ave., St. Louis, Mo. (58). **C**
MORRIS, NEWBOLD, 115 East 73d St., New York, N. Y. (49). **L**
*Morris, Richard, Ph. D., Professor of Mathematics, Rutgers College, New Brunswick, N. J. (63). 1915. **A**
Morris, Robert Tuttle, M. D., 616 Madison Ave., New York, N. Y. (63). **K**
Morris, Wilson C., Ph. D., Professor of Physics, State Normal School, Warrensburg, Mo. (60). **A B**
Morrison, Alva, 53 Middle St., Braintree, Mass. (60).
Morrison, Henry Clinton, Concord, N. H. (61).
Morrison, J. D., Agricultural Experiment Sub-station, Highmore, S. D. (66). **M**
Morrison, Laurence Stillman, Redlands, Cal. (64). **K**
Morrison, Thomas, E. M., Diamond Bank Building, Pittsburgh, Pa. (51). **D**
Morrison, William B., M. D., 145 West Washington St., Hagerstown, Md. (60). **K**
Morrissey, John P., S. J., St. Xavier College, Cincinnati, Ohio. (63). **C**
*MORSE, EDWARD SYLVESTER, Ph. D., Director, Peabody Museum, Salem, Mass. (18). 1874. **F H**
*Morse, Fred. Winslow, Professor of Chemistry, Massachusetts Agricultural Experiment Station, Amherst, Mass. (51). 1906. **C**
Morse, Fremont, U. S. Coast and Geodetic Survey, P. O. Box 2512, San Francisco, Cal. (65).
*Morse, Josiah, Ph. D., Professor of Philosophy and Psychology, University of South Carolina, Columbia, S. C. (63). 1914. **H L**
*Morse, Max Withrow, Ph. D., Professor of Biology, Trinity College, Hartford, Conn. (51). 1911. **F K**
Morse, Mrs. Virgil D., 512 Edgewood Place, Ithaca, N. Y. (65). **I L**
Morse, Waldo Grant, 324 Palisade Ave., Yonkers, N. Y. (66).
*Morse, Warner Jackson, Ph. D., University of Maine, Orono, Me. (52). 1911. **G**
Morse, William Clifford, Washington University, St. Louis, Mo. (60). **E**
Morse, William H., 1937 Lagunia St., Santa Barbara, Cal. (60). **G**
Morton, Darwin Abbot, Ph. D., 420 Hamilton St., Syracuse, N. Y. (63). **C**
Morton, George L., 503 The Ontario, Washington, D. C. (52). **B D**
Moschcowitz, Alexis V., M. D., 925 Madison Ave., New York, N. Y. (56). **K**
*Moseley, Edwin L., State Normal College, Bowling Green, Ohio. (34). 1902. **E F G K**
*Moser, Jefferson Franklin, Captain, U. S. N., Retired, 85 2d St., San Francisco, Cal. (28). 1889. **E**
*Moses, Alfred Joseph, Ph. D., Professor of Mineralogy, Columbia University, New York, N. Y. (49). 1902. **E**

Moses, Herbert L., 2344 Eutaw Place, Baltimore, Md. (65). C

*Moses, Thomas Freeman, M. D., Worcester Lane, Waltham, Mass. (25). 1883. E H K

Mosher, Charles D., 17 Battery Place, New York, N. Y. (53). D

Mosher, M. L., De Witt, Iowa. (66). M

Mosier, Jeremiah G., Professor of Soil Physiology, University of Illinois, Urbana, Ill. (66). M

Mosley, Thomas Jefferson, Professor of Physics, Southwestern University, Georgetown, Texas. (65). B

Moss, Harold R., 1001 22d Ave., East Oakland, Cal. (65).

Mosser, Thomas J., Newberry Station, Williamsport, Pa. (63).

Mote, Don Carlos, Assistant Professor of Animal Husbandry, Ohio Agricultural Experiment Station, Wooster, Ohio. (64). F

Mott, Howard Schenck, care Bankers Trust Co., 16 Wall St., New York, N. Y. (57). I

*Mott, William Elton, Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. (60). 1915. D

*Mott, William Roy, 1586 Cohassett Ave., Cleveland, Ohio. (60). 1911. C

*Motter, Murray Galt, M. D., 2314 19th St. N. W., Washington, D. C. (51). 1910. C K

Motter, William D. B., Jr., E. M., care Southwest Smelting and Refining Co., Orogrande, N. M. (60). D

*Mottier, David Myers, Ph. D., Professor of Botany, University of Indiana, Bloomington, Ind. (50). 1901. G

*Moulton, C. Robert, Ph. D., Assistant Professor of Agricultural Chemistry, College of Agriculture, Columbia, Mo. (58). 1911. C M

*Moulton, Dudley, Ferry Building, San Francisco, Cal. (57). 1914. F

*Moulton, Forest Ray, Ph. D., Professor of Astronomy, University of Chicago, Chicago, Ill. (50). 1901. A

Moulton, W. H., care Cleveland Cliffs Iron Co., Ishpeming, Mich. (53). D

Mount, George Haines, Ph. D., Professor of Psychology, Iowa State Teachers College, Cedar Falls, Iowa. (62). H L

Mowlds, Eugene, C. E., American Bridge Co., Edgemoor, Del. (60). D

Mowry, Eugene C., M. D., 355 West 42d St., New York, N. Y. (60). K

*Moyer, James Ambrose, Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. (54). 1911. D

Moyer, Lycurgus R., Montevideo, Minn. (50). G

Muchmore, Lyman J., 525 Franklin St., Whittier, Cal. (65).

*Muckenfuss, Anthony Moultrie, Ph. D., Professor of Chemistry, University of Mississippi, University, Miss. (52). 1910. C

*Mudd, Harvey Gilmer, M. D., Humboldt Building, St. Louis, Mo. (60). 1911. K

Mudge, Courtland S., National Canners Association, 1739 H St., N. W., Washington, D. C. (63).

*Mueller, Edward, Ph. D., 47 Walker Building, Massachusetts Institute of Technology, Boston, Mass. (52). 1911. **B C K**

*Muhlberg, William, M. D., 2617 Vine St., Cincinnati, Ohio. (57). 1911. **K**

Muhse, Mrs. Albert Charles, Ph. D., care British-American Tobacco Co., 86 Strand, London, W. C., England. (58). **F**

Mulford, Miss A. Isabel, 128 Sixth Ave., East, Calgary, Canada. (45). **G L**

Mulholland, William, 645 So. Olive St., Los Angeles, Cal. (66).

*Mullenix, Rollin Clarke, Ph. D., Professor of Biology, Lawrence College, Appleton, Wis. (60). 1913. **F**

*Mulliken, Samuel Parsons, Ph. D., Massachusetts Institute of Technology, Boston, Mass. (43). 1899. **C**

Mullin, Robert Hyndman, M. D., Director, Laboratory Division, Minnesota State Board of Health, Minneapolis, Minn. (64). **K**

Mulvania, Maurice, Tennessee Agricultural Experiment Station, Knoxville, Tenn. (65). **F**

*Mumford, Frederick Blackmar, Dean, College of Agriculture, University of Missouri, Columbia, Mo. (63). 1915. **G M**

Mumford, Herbert Windsor, Professor of Animal Husbandry, University of Illinois, Urbana, Ill. (63). **M**

Muncaster, Stewart Brown, M. D., 907 16th St. N. W., Washington, D. C. (50). **K**

Muncie, J. Howard, Michigan Agricultural College, East Lansing, Mich. (65). **G**

Munier, Léon E., 973 Dolores St., San Francisco, Cal. (65).

MUNN, JOHN PIXLEY, M. D., 277 Broadway, New York, N. Y. (57). **K**

*Munn, Malcolm John, Gulf Pipe Line Co., Clinton Building, Tulsa, Okla. (62). 1913. **E**

*MUNROE, CHARLES EDWARD, Ph. D., Professor of Chemistry, George Washington University, Washington, D. C. (22). 1874. **C**

*Munson, John P., Ph. D., 706 North Anderson St., Ellensburg, Wash. (58). 1911. **F I K L**

*Münsterberg, Hugó, M. D., Ph. D., LL. D., Professor of Psychology, Harvard University, Cambridge, Mass. (47). 1898. **H**

*Murbach, Louis, Ph. D., Central High School, Detroit, Mich. (54). 1911. **F**

*Murdoch, John, 16 High Rock Way, Allston, Mass. (29). 1886. **F H**

Murdock, Carleton Chase, Department of Physics, Cornell University, Ithaca, N. Y. (65). **B**

Murdy, Robert L., M. D., Aberdeen, S. D. (60). **K**

Murfee, Edward Hunter, LL. D., Brenau College, Gainesville, Ga. (63). **B C**

Murfee, Hopson Owen, President, Marion Institute, Marion, Ala. (61). **A B**

*Murlin, John Raymond, Ph. D., Assistant Professor of Physiology, Cornell University Medical School, New York, N. Y. (54). 1906. **K**

Murphey, Howard Sylvester, Associate Professor of Anatomy and Histtology, Iowa State College, Ames, Iowa. (65). **K**

Murphy, A. J., 3 & 4 Queen Square, Leeds, England. (63).

Murphy, Felix, M. D., Doylestown, Pa. (60). **K**

Murphy, Francis Hayes, E. E., Portland Railway, Light and Power Co., Portland, Ore. (60). **D**

Murphy, J. Francis, Arkville, N. Y. (65).

*Murphy, Robert Cushman, Curator, Division of Mammals and Birds, Brooklyn Institute Museum, Brooklyn, N. Y. (65). 1915. **F**

*Murray, Daniel Alexander, Ph. D., Professor of Applied Mathematics, McGill University, Montreal, Canada. (47). 1899. **A**

Murray, James Jardine, E. M., Orogrande, New Mexico. (60). **D**

Murray, John Francis, C. E., 607 Broad St. Station, Philadelphia, Pa. (60). **D**

Murray, T. Morris, M. D., 2107 Massachusetts Ave., Washington, D. C. (60). **K**

*Musgrave, William Everett, M. D., College of Medicine and Surgery, University of the Philippines, Manila, P. I. (63). 1915. **K**

*Muttkowski, Richard A., Zoological Department, University of Wisconsin, Madison, Wis. (62). 1914. **F**

Myer, Arthur H., care Standard Oil Co., Drawer H, Bakersfield, Cal. (65).

Myers, Clyde, Ph. D., Assistant Professor of Plant Breeding, New York State College of Agriculture, Ithaca, N. Y. (65). **G M**

Myers, Dr. Edward W., 375 Arcade Building, Greensboro, N. C. (49).

Myers, George E., care State Normal School, Pittsburg, Kans. (62). **L**

*Myers, George William, Ph. D., Professor of Mathematics and Astronomy, University of Chicago, Chicago, Ill. (46). 1899. **A**

Myers, Miss Katrina, 1614 Broadway, Indianapolis, Ind. (66). **L**

Myers, Nathaniel, 135 Central Park, West, New York, N. Y. (57).

*Myers, Victor C., Ph. D., 1431 University Ave., New York, N. Y. (60). 1911. **C**

*Myers, William Shields, Sc. D., 25 Madison Ave., New York, N. Y. (43). 1898. **C**

Nabours, Robert Kirkland, Ph. D., Professor of Zoology, Kansas State Agricultural College, Manhattan, Kans. (63). **G**

*Nachtrieb, Henry Francis, Professor of Animal Biology, University of Minnesota, Minneapolis, Minn. (53). 1905. **F**

*Nagle, James C., C. E., Chairman, Board of Water Engineers, Austin, Texas. (40). 1893. **B D**

Naidu, A. S., M. E., Vizianagram City, Vizagpatam District, Madras, India, (65). **D**

Nakamura, Keijiro, E. M., care Baron Sumitomo's General Head Office, Kitahama, Higashiku, Osaka, Japan. (60). **D**

*Nash, George Valentine, 2587 Bainbridge Ave., New York, N. Y. (47). 1906. **G**

*Nason, Frank Lewis, E. M., West Haven, Conn. (36). 1888. **E**

*Nason, William Abbot, M. D., Algonquin, Ill. (58). 1914. F
*Neal, Herbert Vincent, Ph. D., Professor of Zoology, Tufts College, Tufts College, Mass. (53). 1905. F
Neale, Henry Marion, M. D., Upper Lehigh, Pa. (58). K
Nealy, Walter A., 32 Webster St., Walden, Mass. (64).
Neeb, Charles William, P. O. Box 127, Pittsburgh, Pa. (63). E H I
*Needham, James George, Ph. D., Professor of Biology, Limnology and Nature Study, Cornell University, Ithaca, N. Y. (45). 1898. F L
Neely, Miss Carrie Blair, 4929 Greenwood Ave., Chicago, Ill. (66). M
Neely, John Crosby, E. E., 181 La Salle St., Chicago, Ill. (60). D
*Nef, John Ulric, Ph. D., Professor of Chemistry, University of Chicago, Chicago, Ill. (39). 1891. C
Neff, Byron D., 1333 No. Dearborn St., Indianapolis, Ind. (64).
*Neff, Frank Howard, C. E., Professor of Civil Engineering, Case School of Applied Science, Cleveland, Ohio. (63). 1915. D
Neff, George Rea, M. D., Farmington, Iowa. (58). F H K
Neiler, Samuel Graham, Consulting and Designing Engineer, 1409 Manhattan Building, Chicago, Ill. (50). D
Neilson, Walter Hopper, M. D., Editor, *Milwaukee Medical Journal*, 114 Garfield Ave., Milwaukee, Wis. (51). K
*Neish, Arthur C., Ph. D., Assistant Professor of Chemistry, Columbia University, New York, N. Y. (63). 1915. C
Nelms, William Stockton, Ph. D., Georgia School of Technology, Atlanta, Ga. (63). B
*Nelson, Alfred Brierley, M. D., Emeritus Professor of Mathematics, Central University, Danville, Ky. (30). 1882. A B
*Nelson, Aven, Ph. D., Professor of Botany, University of Wyoming, Laramie, Wyo. (50). 1903. G
Nelson, Edgar, Agricultural Experiment Station, Gainesville, Fla. (64). G
*Nelson, Edward William, U. S. Department of Agriculture, Washington, D. C. (54). 1906. F
*Nelson, James Allen, Ph. D., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (55). 1911. F
Nelson, James W., M. E., 38 Livingston St., Brooklyn, N. Y. (60). 1911. D
Nelson, N. L. T., Ph. D., Gainesville, Fla. (53). G
*Nelson, Wilbur Armistead, Tennessee Geological Survey, Nashville, Tenn. (64). 1915. E
Nesbitt, Charles A., 1216 B. of L. E. Building, Cleveland, Ohio. (63).
Ness, Henry, 408 6th Ave., Shenandoah, Iowa. (58). F
Nettleroth, Alexander, M. D., 629 Baxter Ave., Louisville, Ky. (60). K
Neu, Clarence Leonard, 4547 Greenview Ave., Chicago, Ill. (65).
Neuman, Leo Händel, M. D., 194 State St., Albany, N. Y. (60). K
*Newcomb, Harry Turner, R. F. D. 1, Bethesda, Md. (47). 1898. I
Newcomb, Rexford, 2029 Atlantic Ave., Long Beach, Cal. (65).
NEWCOMB, WILLIAM W., M. D., 48 Webb Ave., Detroit, Mich. (58). F K

*Newcombe, Frederick Charles, Ph. D., Professor of Botany, University of Michigan, Ann Arbor, Mich. (43). 1896. **G**

Newell, Miss Anna Grace, 401 So. Wright St., Champaign, Ill. (63). **F**

Newell, Clyde Ross, 905 West Illinois St., Urbana, Ill. (63). **F**

*Newell, Lyman Churchill, Ph. D., 2218 Durant Ave., Berkeley, Cal. (60). 1911. **C**

Newell, Marcus A., M. D., Sheridan, Wyo. (60). **K**

*Newell, Wilmon, Professor of Entomology and State Entomologist, A. and M. College of Texas, College Station, Texas. (53). 1906. **F G**

Newhart, Horace, M. D., 910 Donaldson Building, Minneapolis, Minn. (60). **K**

Newins, Harold S., Assistant Professor of Forestry, Oregon Agricultural College, Corvallis, Ore. (63). **G M**

*Newkirk, Burt Leroy, Ph. D., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. (58). 1915. **A D L**

Newkirk, Chauncey F., 4313 North Hermitage Ave., Chicago, Ill. (58).

*Newland, David Hale, Assistant State Geologist, State Museum, Albany, N. Y. (54). 1909. **E**

*Newlands, James A., 11 Laurel St., Hartford, Conn. (57). 1909. **C K**

Newman, Arthur C., Cardozo Vocational School, Washington, D. C. (61). **L**

*Newman, Horatio Hackett, Ph. D., Associate Professor of Zoology and Embryology, University of Chicago, Chicago, Ill. (58). 1909. **F**

Newman, Hugo, 538 West 150th St., New York, N. Y. (61). **L**

Newman, L. H., Department of Agriculture, Canadian Building, Ottawa, Canada. (66). **M**

Newman, S. W., 2209 Buchanan St., San Francisco, Cal. (65).

Newman, Stephen Morrell, D. D., President, Howard University, Washington, D. C. (63).

*Newsom, John Flesher, Ph. D., Professor of Mining Geology, Leland Stanford Junior University, Stanford University, Cal. (44). 1903. **E**

Newton, Earl B., 57 West Etruria St., Station F, Seattle, Wash. (62).

Nicholl, Roy Hubert, King's County Hospital, Brooklyn, N. Y. (63). **K**

Nichols, Austin P., 4 Highland Ave., Haverhill, Mass. (37). **C**

Nichols, Carroll B., 7 Polo Road, Bryn Mawr, Pa. (65). **D**

Nichols, Charles Lemuel, M. D., 38 Cedar St., Worcester, Mass. (60). **K**

*Nichols, Edward Leamington, Ph. D., Professor of Physics, Cornell University, Ithaca, N. Y. (28). 1881. **B C**

*Nichols, Ernest Fox, LL. D., President, Dartmouth College, Hanover, N. H. (41). 1893. **B**

*Nichols, Henry James, Captain, Medical Corps, U. S. A., Army Medical School, Washington, D. C. (65). 1915. **K**

Nichols, Irby Coghill, A. and M. College of Texas, College Station, Texas. (65). **A**

*NICHOLS, JOHN TREADWELL, American Museum of Natural History, New York, N. Y. (62). 1915. **F**

Nichols, Mrs. Julia Steelman, 1133 Lomita Ave., Glendale, Cal. (64).

Nichols, M. Louise, Ph. D., Department of Geography and Zoology, Philadelphia Normal School, Philadelphia, Pa. (54). **E F L**

*Nichols, Susan P., Ph. D., Department of Botany, Oberlin College, Oberlin, Ohio. (60). 1911. **G**

*Nichols, Walter Smith, 100 William St., New York, N. Y. (54). 1906. **A B**

Nichols, William Ford, D. D., 1215 Sacramento St., San Francisco, Cal. (65).

*Nichols, William Henry, Sc. D., LL. D., 25 Broad St., New York, N. Y. (57). 1908. **C**

Nichols, William Wallace, M. E., 30 Church St., New York, N. Y. (60). **D**

Nicholson, Joseph L., M. D., 400 Penn St., Camden, N. J. (60). **K**

Nicholson, Louise, Jordan, N. Y. (60). **A**

*Nicol, William, Professor of Mineralogy, School of Mining, Kingston, Canada. (57). 1909. **E**

Nicola, Frank F., Farmers Bank Building, Pittsburgh, Pa. (50). **D**

*Nies, Rev. James Buchanan, Ph. D., Hotel St. George, Brooklyn, N. Y. (58). 1913. **H**

Nigrin, J. Victor, 1643 South Avers Avenue, Chicago, Ill. (64).

Niles, Robert Lossing, 20 Broad St., New York, N. Y. (47). **B C D**

*Nipher, Francis Eugene, LL. D., Professor of Physics, Washington University, St. Louis, Mo. (24). 1876. **B**

Nisbet, James Douglas, M. D., 34 West 50th St., New York, N. Y. (65). **K**

Nixon, George, E. E., 1704 West 11th Ave., Spokane, Wash. (60). **D**

Noble, Albert E., E. M., 20th St. and Wilmer Ave., Anniston, Ala. (60). **D**

*Noble, Charles Albert, Ph. D., Associate Professor of Mathematics, University of California, Berkeley, Cal. (60). 1910. **A**

Noble, Frederick Charles, C. E., 867 President St., Brooklyn, N. Y. (65) **D**

Noble, Harriet Isabel, M. D., 262 Putnam Ave., Brooklyn, N. Y. (58). **K**

*Noble, Levi F., Ph. D., Valyermo, Cal. (54). 1911. **E**

Noer, Julius, M. D., Stoughton, Wis. (60). **K**

*Nolan, Edward J., M. D., Academy of Natural Sciences, Philadelphia, Pa. (29). 1890. **F K**

Nolte, Lewis Gustavus, M. D., Senn's Block, Milwaukee, Wis. (51). **K**

Norbury, Frank Parsons, M. D., 7th St. and Capitol Ave., Springfield, Ill. (58). **H I K L**

Nörgaard, Victor A., V. S., Honolulu, Hawaii. (59). **F K**

*Norris, Charles, M. D., 2131 Broadway, New York, N. Y. (57). 1908. **K**

Norris, F. O., M. D., Eagle Lake, Tex. (60). **K**

Norris, George William, M. D., Assistant Professor of Medicine, University of Pennsylvania, Philadelphia, Pa. (65). **K**

Norris, Mrs. Harriette B. Holbrook, 304 Moffett Ave., Joplin, Mo. (65).

*Norris, Harry Waldo, Professor of Zoology, Iowa College, Grinnell, Iowa. (53). 1908. **F**

*Norris, James Flack, Ph. D., Professor of Chemistry, and Director of Chemical Laboratories, Vanderbilt University, Nashville, Tenn. (54). 1906. **C**

Norris, Miss Olive K., Sage Cottage, Ithaca, N. Y. (65).

Norris, Robert S., Ph. D., H. S. P. Experiment Station, Honolulu, Hawaii. (65). **C**

Norris, William H., M. E., 1000 Chestnut St., Philadelphia, Pa. (63). **D**

*Norsworthy, Naomi, Ph. D., Assistant Professor of Educational Psychology, Teachers College, Columbia University, New York, N. Y. (54). 1911. **K**

North, Charles E., M. D., Hudson Terminal, 30 Church St., New York, N. Y. (60). **D K**

North, Henry B., Sc. D., Associate Professor of Chemistry, Rutgers College, New Brunswick, N. J. (64). **C**

North, William B., 2140 Robinwood Ave., Toledo, Ohio. (60). **C**

Northrop, Robert S., P. O. Box 14, Redding, Cal. (66).

Northrup, Prof. Ann H., 1715 Calhoun St., New Orleans, La. (62). **C**

*Northrup, Edwin Fitch, Ph. D., Professor of Physics, Palmer Physical Laboratory, Princeton, N. J. (58). 1910. **B D**

Norton, A. Wellington, LL. D., Pearland, Tex. (52). **I**

Norton, Arthur Herbert, 22 Elm St., Portland, Me. (63). **F**

*Norton, Arthur Orlo, Assistant Professor of the History and Art of Teaching, Harvard University, Cambridge, Mass. (58). 1915. **L**

Norton, Charles Ladd, Professor of Heat Measurements, Massachusetts Institute of Technology, Boston, Mass. (65). **B**

Norton, Henry B., Minnesota Soldiers Home, Minneapolis, Minn. (63). **E**

*Norton, J. B. S., Professor of Botany, Maryland Agricultural College, College Park, Md. (47). 1899. **G**

*Norton, Jesse Baker, U. S. Department of Agriculture, Washington, D. C. (52). 1909. **G**

*Norton, John Foote, Assistant Professor of Chemistry of Sanitation, Massachusetts Institute of Technology, Boston, Mass. (58). 1915. **C**

Norton, John H., Gardena, Cal. (58). **C**

*Norton, John Pease, Ph. D., Assistant Professor of Economics and Statistics, Yale University, New Haven, Conn. (57). 1907. **I**

*NORTON, THOMAS HERBERT, Sc. D., Ph. D., 455 George St., New Haven, Conn. (35). 1887. **C**

Norton, Warren Carney, Department of Botany and Bacteriology, North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C. (63). **G**

*Norwood, Charles Joseph, Professor of Mining and Metallurgy, State University of Kentucky, Lexington, Ky. (54). 1906. **E**

Notman, George, 99 John St., New York, N. Y. (57).

*Novy, Frederick George, M. D., Sc. D., Professor of Bacteriology, University of Michigan, Ann Arbor, Mich. (36). 1889. **C K**

Nowak, Carl A., Wm. Rohr Sons' Co., Manitowoc, Wis. (63).

*Noyes, Arthur Amos, Sc. D., Ph.D., LL.D., Professor of Physical Chemistry, Massachusetts Institute of Technology, Boston, Mass. (45). 1897. **C**

Noyes, La Verne, 1450 Lake Shore Drive, Chicago, Ill. (58).

*Noyes, William Albert, Ph. D., LL. D., Professor of Chemistry, University of Illinois, Urbana, Ill. (32). 1885. **C**

Nunn, Paul N., E. E., Wyoming Electric Co., Casper, Wyoming. (58). **C D**

*Nuttall, Mrs. Zelia, Casa Alvarado, Coyoacan, D. F., Mexico. (35). 1887. **H**

*Nutting, Charles Cleveland, Professor of Zoology, State University of Iowa, Iowa City, Iowa. (40). 1892. **F**

*Nutting, Perley Gilman, Ph. D., 3 Kodak Park, Rochester, N. Y. (53). 1906. **A B H L**

*Nyberg, Joseph Antonius, University of Wisconsin, Madison, Wis. (64). 1915. **A**

Nylander, Olof O., R. F. D. 4, Caribou, Me. (50). **F**

*Nyswander, Reuben Edson, Professor of Physics, University of Denver, University Park, Colo. (55). 1915. **B**

Oakley, Russell A., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). **G**

*Obear, George Barrows, Ph. D., Professor of Physics, Colby College, Waterville, Me. (54). 1915. **B D**

*Oberholser, Harry Church, U. S. Department of Agriculture, Washington, D. C. (46). 1898. **E F H**

O'Brien, John, Jr., M. D., Marting, W. Va. (60). **K**

O'Brien, Mary Editha, 134 Warren Ave., East, Detroit, Mich. (58).

O'Brien, Thomas H., E. M., General Manager, Stag Cañon Fuel Co., Dawson, N. M. (60). **D**

O'Byrne, Leo C., 2545 Washington Boulevard, Chicago, Ill. (56). **C D**

Ochs, Adolph S., care *New York Times*, New York, N. Y. (57).

Ochsner, Albert Henry, Eastover, Spring Grove, Va. (64). **G**

Ochsner, W. H., 923 First National Bank Building, San Francisco, Cal. (65).

O'Connell, Charles J., 2413 Portland Ave., Minneapolis, Minn. (60). **C**

O'Connell, Rt. Rev. Dennis Joseph, Bishop's House, 800 Cathedral Place, Richmond, Va. (58). **L**

O'Connell, Miss Marjorie, Columbia University, New York, N. Y. (63). **E**

Odenbach, Rev. Frederick Louis, S. J., Director, Meteorological Observatory, St. Ignatius College, Cleveland, Ohio. (54). **B E F**

O'Donnell, Prof. T. C., Editor, *Good Health Magazine*, Battle Creek, Mich. (65).

O'Donovan, Charles, M. D., 5 East Read St., Baltimore, Md. (58). **K**

*Oestlund, Oscar W., Ph. D., Assistant Professor of Biology, University of Minnesota, Minneapolis, Minn. (50). 1915. **F**

Oettinger, Philip J., Ph. D., 418 Central Park, West, New York, N. Y. (57). **C D**

Of, Charles, E. M., 615A Castro St., San Francisco, Cal. (61). **G**

*O'Gara, Patrick Joseph, American Smelting and Refining Co., Salt Lake City, Utah. (61). 1913. **G**

*Ogden, Henry Vining, M. D., 141 Wisconsin St., Milwaukee, Wis. (51). 1911. **F G K**

*Ogden, Robert Morris, Ph. D., Professor of Psychology, University of Kansas, Lawrence, Kans. (58). 1911. **H L**

Ogden, Rollo, Editor, *New York Evening Post*, New York, N. Y. (57).

*Ogilvie, Ida Helen, Ph. D., Department of Geology, Barnard College, Columbia University, New York, N. Y. (51). 1909. **E**

Oglevee, Christopher Stoner, Sc. D., Professor of Natural Science, Lincoln College, Lincoln, Ill. (50). **F G**

O'Halloran, Miss Rose, 237 Broderick St., San Francisco, Cal. (65).

*O'Harra, Cleophas Cisney, Ph. D., Professor of Mineralogy and Geology, State School of Mines, Rapid City, S. D. (48). 1907. **E**

*Ohern, Daniel Webster, Ph. D., Oklahoma Geological Survey, Norman, Okla. (58). 1911. **E**

*Ohle, Ernest Linwood, Professor of Mechanical Engineering, Washington University, St. Louis, Mo. (58). 1915. **D**

*Ohlmacker, Albert Philip, M. D., 350 Pennsylvania Ave., Detroit, Mich. (54). 1906. **K**

Okerström, Albert, M. D., 217 Charles St., Sycamore, Ill. (57). **K**

Okkelberg, Peter, Department of Zoology, University of Michigan, Ann Arbor, Mich. (63). **F**

*Olds, George Daniel, LL. D., Professor of Mathematics, Amherst College, Amherst, Mass. (54). 1907. **A**

O'Leary, Pearse, M. D., Vicksburg, Miss. (60). **K**

Oleson, Olaf M., Fort Dodge, Iowa. (53). **G**

Olin, Stephen Henry, D. D., LL. D., 22 East 47th St., New York, N. Y. (57). **I**

*Olive, Edgar William, Ph. D., Curator, Brooklyn Botanic Garden, Brooklyn, N. Y. (48). 1903. **G**

Oliver, Harry Reeves, Butler Building, San Francisco, Cal. (66).

Oliver, Wade Wright, 2233 Park Ave., Walnut Hills, Cincinnati, Ohio. (63). **K**

*Olivier, Charles Pollard, Ph. D., Leander McCormick Observatory, Charlottesville, Va. (63). 1913. **A**

Olmstead, Lewis Bertie, U. S. Department of Agriculture, Washington, D. C. (65). **B**

Olmsted, Everett Ward, Ph. D., 901 5th St., S. E., Minneapolis, Minn. (65).

Olmsted, F. A., Oregon City, Oregon. (64).

Olmsted, John Charles, Landscape Architect, 16 Warren St., Brookline, Mass. (50). **E I**

*Olney, Louis Atwell, Professor of Chemistry, Lowell Textile School, Lowell, Mass. (57). 1908. **C**

Olney, Warren, 427 29th St., Oakland, Cal. (66). **I**

Olsen, O. T., Ph. D., St. Andrew's Terrace, Grimsby, England. (60). **A B E F**

*Olsen, Tinius, Hotel Gladstone, Philadelphia, Pa. (51). 1915. **D**

Olson, Prof. David, Kent State Normal School, Kent, Ohio. (58). **E**

*Olson, George A., Professor of Chemistry, Washington Agricultural Experiment Station, Pullman, Wash. (60). 1911. **C**

OLYPHANT, ROBERT MORRISON, JR., 7 Wall St., New York, N. Y. (57).

O'Malley, Thomas James, M. D., 168 East North Ave., Chicago, Ill. (58). **B C H K**

*O'Neill, Edmond, Professor of Chemistry, University of California, Berkeley, Cal. (57). 1910. **C**

O'Neill, Emmett, 4665 Leiper St., Frankford, Philadelphia, Pa. (62). **K**

O'Neill, Rev. Thomas Lantry, D. D., 2630 Ridge Road, Berkeley, Cal. (65).

Opdyke, William Stryker, 20 Nassau St., New York, N. Y. (49).

*Ophüls, William, M. D., 114 Walnut St., San Francisco, Cal. (65). 1915. **K**

*Opie, Eugene Lindsay, M. D., Dean, Washington University Medical School, St. Louis, Mo. (58). 1911. **K**

Oppenheimer, Bernard Sutro, M. D., 125 West 86th St., New York, N. Y. (60). **K**

Orcutt, Alfred W., Professor of Zoology, Denison University, Granville, Ohio. (62). **F**

*Orcutt, Charles Russell, 1705 Broadway, San Diego, Cal. (62). 1914. **G**

O'Reilly, Andrew J., E. E., 2207 South Grand Ave., St. Louis, Mo. (60). **D**

*Orndorff, William Ridgely, Ph. D., Professor of Chemistry, Cornell University, Ithaca, N. Y. (60). 1910. **C**

Orr, Edward D., M. D., Mt. Hope, Wis. (58). **K**

Orr, Miss Mary Moore, 102 Remson St., Brooklyn, N. Y. (57). **I L**

*Orr, William, Jr., 508 Ford Building, Boston, Mass. (39). 1895. **B C E L**

Orrok, George A., C. E., Lee, Mass. (60). **D**

*Ortmann, Arnold Edward, Ph. D., Professor of Physical Geography, University of Pittsburgh, Pittsburgh, Pa. (51). 1903. **E F**

*Orton, Clayton Roberts, Assistant Professor of Botany, Pennsylvania State College, State College, Pa. (62). 1915. **G**

*Orton, Edward, Jr., Professor of Ceramic Engineering and Dean, College of Engineering, Ohio State University, Columbus, Ohio. (48). 1900. **C D E**

*Orton, William Allen, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (49). 1909. **G**

OSBORN, HON. CHASE SALMON, LL. D., Sault Ste. Marie, Mich. (60). **E**

*Osborn, Frederick A., Ph. D., Professor of Physics, University of Washington, Seattle, Wash. (50). 1910. **B**

*Osborn, Henry Fairfield, Ph. D., Sc. D., LL. D., President, American Museum of Natural History, New York, N. Y. (29). 1883. **E F**

*Osborn, Henry Leslie, Ph. D., Professor of Zoology, Hamline University, St. Paul, Minn. (52). 1906. F

*Osborn, Herbert, Professor of Zoology and Entomology, Ohio State University, Columbus, Ohio. (32). 1884. F

Osborn, Herbert Tirrill, care Experiment Station, H. S. P. A., Honolulu, Hawaii. (63). F

Osborn, Lynn W., College of Agriculture, Fayetteville, Ark. (65). M

Osborn, Ralph, De Witt Clinton High School, New York, N. Y. (60). F G

Osborn, William Church, 71 Broadway, New York, N. Y. (57).

*Osborne, George Abbott, Emeritus Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (50). 1903. A

Osborne, Loyall Allen, E. E., Manager, Westinghouse Electric and Manufacturing Co. Works, Pittsburgh, Pa. (50). D

*Osburn, Raymond Carroll, Ph. D., Asst. Professor of Zoology, Barnard College, Columbia University, New York, N. Y. (50). 1906. F

Osgood, Alfred Townsend, M. D., 40 East 41st St., New York, N. Y. (57). K

Osgood, George Draper, 221 Beacon St., Boston, Mass. (63).

Osgood, Joseph B. F., P. O. Box 212, Salem, Mass. (31). C

Osgood, Paul M., Hotel Woodbridge, West Somerville, Mass. (60). C

*Osgood, Wilfred Hudson, Field Museum of Natural History, Chicago, Ill. (52). 1905. F

O'Shaughnessy, Louis, C. E., Ph. D., Department of Mathematics, University of Pennsylvania, Philadelphia, Pa. (63). A

*O'Shea, Michael Vincent, Professor of Education, University of Wisconsin, Madison, Wis. (53). 1907. H I L

Oskamp, Joseph, Agricultural Experiment Station, La Fayette, Ind. (64). G

*Osmun, A. Vincent, Assistant Professor of Botany, Massachusetts Agricultural College, Amherst, Mass. (60). 1915. G

Osner, George A., New York State College of Agriculture, Ithaca, N. Y. (62). G

*Osterhout, George E., Windsor, Colo. (60). 1911. G

*Osterhout, Winthrop John Vanleuven, Ph. D., Professor of Botany, Harvard University, Cambridge, Mass. (61). 1911. G

*Osterud, Hjalmar L., Professor of Zoology, University of Washington, Seattle, Wash. (64). 1915. F

Otis, Charles Herbert, 116 Ferris Place, Ithaca, N. Y. (64). G

*Ott, Isaac, M. D., Easton, Pa. (54). 1906. K

Ottenberg, Reuben, M. D., 15 West 89th St., New York, N. Y. (64). K

Ottley, Miss Alice M., Department of Botany, Wellesley College, Wellesley, Mass. (61). G

Overlock, Melvin G., M. D., 91 Chandler St., Worcester, Mass. (60). K

*Overton, James Bertram, Ph. D., Associate Professor of Plant Physiology, University of Wisconsin, Madison, Wis. (52). 1906. G

*Owen, Charles Lorin, Assistant Curator, Field Museum of Natural History, Chicago, Ill. (50). 1902. H

Owen, Ethel, 2737 Clay St., San Francisco, Cal. (66).

Owen, Ira J., M. E., 1202 Marquette Building, Chicago, Ill. (58). D

*OWEN, Miss JULIETTE A., 306 North Ninth St., St. Joseph, Mo. (50). 1906. F

*OWEN, MISS LUELLA AGNES, 306 North Ninth St., St. Joseph, Mo. (47). 1911. E H

OWEN, MISS MARY ALICIA, 306 North Ninth St., St. Joseph, Mo. (50). H

*Owen, Thomas McAdory, LL. D., Director, Alabama State Department of Archives and History, Montgomery, Ala. (60). 1913. H

Owen, William Bishop, Ph. D., Principal, Chicago Normal School, Chicago, Ill. (62). L

*Owens, Robert Bowie, Sc. D., E. E., Secretary, Franklin Institute, Philadelphia, Pa. (65). 1915. D

Owens, William Gundy, Professor of Chemistry and Physics, Bucknell University, Lewisburg, Pa. (50). B C

*Pace, Lula, Ph. D., 1422 South 8th St., Waco, Texas. (63). 1912. G

*Pack, Frederick James, Ph. D., Deseret Professor of Geology, University of Utah, Salt Lake City, Utah. (54). 1911. E

Pack, Herbert J., 532 East 12th South St., Salt Lake City, Utah. (66).

Packard, Earl L., 1522 Grove St., Berkeley, Cal. (65). E

Packard, Roscoe Milliken, 512 Albany Building, Boston, Mass. (64).

Packard, Walter E., Imperial Valley Sub-station, El Centro, Cal. (66). M

*Paddock, Wendell, Professor of Horticulture, Ohio State University, Columbus, Ohio. (50). 1901. G

Page, Alexander G., 2618 Haste St., Berkeley, Cal. (60). C

PAGE, CLARENCE V., C. E., E. M., P. O. Box 922, Butte, Mont. (51). D E

PAGE, DR. DUDLEY L., 94 Merrimack St., Lowell, Mass. (33). F

Page, Edward Day, Oakland, N. J. (57). I

*Page, James Morris, Ph. D., Professor of Mathematics, University of Virginia, Charlottesville, Va. (58). 1909. A

*Page, Logan Waller, U. S. Department of Agriculture, Washington, D. C. (52). 1911. C M

PAGE, MRS. NELLIE K., 636 Rogers St., Lowell, Mass. (33). F

Page, S. Davis, West End Trust Building, Philadelphia, Pa. (66).

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Paine, Arthur E., Huntington Beach, Cal. (65).

Paine, Mrs. Clinton P., 1115 St. Paul St., Baltimore, Md. (60).

*Paine, Cyrus Fay, 520 East Ave., Rochester, N. Y. (12). 1874. A B

Painter, Theophilus S., Ph. D., Osborn Zoological Laboratory, New Haven, Conn. (64). F

*PALACHE, CHARLES, Ph. D., Professor of Mineralogy, University Museum, Cambridge, Mass. (44). 1896. E

*Palmer, Albert de Forest, Ph. D., Associate Professor of Physics, Brown University, Providence, R. I. (47). 1900. A B

Palmer, C. L., M. D., Diamond Bank Building, Pittsburgh, Pa. (66). K

*Palmer, Charles Skeele, Ph. D., 23 Park Place, Newtonville, Mass. (50). 1901. C L

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PALMER, MRS. ELIZABETH P., 215 North 4th St., Stillwater, Minn. (66). I

Palmer, Erik S., P. O. Box 79, Winter Park, Fla. (64).

Palmer, Ezra, M. D., 1 Van Buren Hall, Trinity Court, Boston, Mass. (51). K

Palmer, Frederic, Jr., Associate Professor of Physics, Haverford College, Haverford, Pa. (65). B

Palmer, Harry Mitchell, E. E., 71 Hazelwood Ave., Pittsburgh, Pa. (60). D

Palmer, Mrs. Potter, 1350 Lake Shore Drive, Chicago, Ill. (65).

*Palmer, Theodore Sherman, M. D., 1939 Biltmore St. N. W., Washington, D. C. (58). 1911. F

Palmer, William Carl, 1115 4th Ave., South, Fargo, N. D. (60). C E

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*Pammel, Louis Hermann, Ph. D., Professor of Botany, Iowa State College, Ames, Iowa. (39). 1892. G

*Pappenheimer, Alwin M., M. D., Professor of Pathology, College of Physicians and Surgeons, New York, N. Y. (62). 1911. K

Papperman, Gustav Adolph, Ph. D., Lockport, N. Y. (63).

Pardee, Frank, Hazleton, Pa. (62). D G

Pardee, Walter Stone, Groveland and Lyndale Aves., Minneapolis, Minn. (62). D

Parham, Frederick William, M. D., 1429 Seventh St., New Orleans, La. (55). K

PARISH, HENRY, 52 Wall St., New York, N. Y. (49).

*Parish, Samuel Bonsall, 772 D St., San Bernardino, Cal. (65). 1915. G

*Park, Charles F., Professor of Mechanism, Massachusetts Institute of Technology, Boston, Mass. (60). 1915. D L

Park, Jay Boardman, 330 Hyde Park Ave., Jamaica Plain, Boston, Mass. (64). C

*Park, William Hallock, M. D., Professor of Bacteriology and Hygiene, N. Y. University Medical College, New York, N. Y. (51). 1903. K

Parker, Delos L., M. D., 559 Jefferson Ave., Detroit, Mich. (60). K

Parker, Edward Mason, M. D., 1726 M St., N. W., Washington, D. C. (62). K

*Parker, George Howard, Sc. D., Professor of Zoology, Harvard University, Cambridge, Mass. (50). 1901. F K

Parker, Gordon, U. S. Forest Service, Mancos, Colo. (66). M

*PARKER, HERSCHEL CLIFFORD, Ph. D., Adjunct Professor of Physics, Columbia University, New York, N. Y. (43). 1900. B

Parker, John Bernard, Catholic University of America, Washington, D. C. (63).

Parker, John Huntington, 1815 Belmont Road, N. W. Washington, D. C. (65). G

*Parker, Matthew A., Professor of Chemistry, University of Manitoba, Winnipeg, Canada. (58). 1911. C

Parker, William M., East Side High School, Denver, Colo. (63). B

Parkhurst, Frederic A., M. E., 52 Gladstone Ave., Detroit, Mich. (60). D

*Parkhurst, John Adelbert, Instructor in Practical Astronomy, Yerkes Observatory, Williams Bay, Wis. (58). 1910. A

*Parkins, Almon Ernest, 10 Allen Place, Columbia, Mo. (60). 1915. E

*Parks, Charles Wellman, U. S. N., Public Works Officer, Naval Station, Pearl Harbor, Hawaii. (50). 1897. B D E

Parman, Daniel Cleveland, P. O. Box 393, Uvalde, Texas. (62). F

*Parmelee, Maurice, Ph. D., College of the City of New York, New York, N. Y. (63). 1913. H I

*Parmenter, George Freeman, Ph. D., Professor of Chemistry, Colby College, Waterville, Me. (58). 1911. C

*Parr, Harry Lilienthal, M. E., Assistant Professor of Mechanical Engineering, Columbia University, New York, N. Y. (63). 1915. D

*Parr, Samuel Wilson, Professor of Applied Chemistry, University of Illinois, Urbana, Ill. (55). 1908. C

Parrish, Celestia Susannah, Department of Education, Atlanta, Ga. (65). H L

Parrish, James Cresson, Shinnecock Hills, Southampton, L. I., N. Y. (65).

*Parrott, Percival John, Professor of Entomology, New York Agricultural Experiment Station, Geneva, N. Y. (60). 1913. F

*Parsons, Arthur Leonard, University of Toronto, Toronto, Canada. (53). 1911. E

*Parsons, Charles Lathrop, Sc. D., D. C., Chief Mineral Chemist, U. S. Bureau of Mines, Washington, D. C. (41). 1896. C

Parsons, Charles W., 30 West 94th St., New York, N. Y. (57).

PARSONS, FRANCIS H., 210 1st St., S. E., Washington, D. C. (52).

Parsons, Hon. Herbert, 115 East 72d St., New York, N. Y. (57).

Partch, Clarence Elmar, 829 29th St., Des Moines, Iowa. (63).

Partridge, Edward Anson, Ph. D., Head, Department of Science, Central Manual Training High School, Philadelphia, Pa. (58). A B

Partridge, Ernest D., Brigham Young University, Provo, Utah. (66).

Partridge, Newton L., 406 East Healy Ave., Champaign, Ill. (64). F

Pascal, Henry S., M. D., The Adlon, 200 West 54th St., New York, N. Y. (60). K

Pastorius, Charles Sharpless, 415 North Cascade Ave., Colorado Springs, Colo. (51).

*Patch, Edith Marion, Ph. D., Entomologist, Maine Agricultural Experiment Station, Orono, Me. (58). 1913. F

Patch, James Bradford, 40 Howard St., Millville, N. J. (63).

Patera, Frank J., M. D., 1647 Clifton Park Ave., Chicago, Ill. (60). K

Patitz, J. F. Max, M. E., 473 38th St., Milwaukee, Wis. (60). D

Paton, Miss Julia Bayles, 97 Brownell St., New Haven, Conn. (64). G

*Paton, Stewart, M. D., Princeton, N. J. (50). 1902. F K

Paton, William Agnew, care David Eaton, Princeton, N. J. (57).

Patrick, Frank, 421 Bonfils Building, Kansas City, Mo. (50). **F G**

*Patten, Andrew J., Professor of Chemistry, Michigan Agricultural College, East Lansing, Mich. (62). 1915. **C**

Patten, Frank Chauncy, Librarian, Rosenberg Library, Galveston, Texas. (53). **I**

Patten, Miss Jane Boit, South Natick, Mass. (55). **G**

PATTEN, JOHN, President, Patten Vacuum Ice Machine Co., 40 South Front St., Baltimore, Md. (43).

*Patten, William, Ph. D., Professor of Biology, Dartmouth College, Hanover, N. H. (58). 1910. **F**

*Patterson, Andrew Henry, Professor of Physics, University of North Carolina, Chapel Hill, N. C. (51). 1906. **B**

*Patterson, Austin McDowell, Ph. D., Xenia, Ohio. (51). 1906. **C**

Patterson, Charles Waggener, 6539 Greenwood Ave., Chicago, Ill. (58). **C**

*Patterson, Mrs. Flora Wambaugh, U. S. Department of Agriculture, Washington, D. C. (44). 1909. **G**

*Patterson, George Washington, Ph. D., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. (44). 1896. **A B D**

Patterson, Guillermo, Jr., Apartado 116, Panama City, Panama, C. A. (58). **C D K**

*Patterson, Harry Jacob, Sc. D., President, Maryland Agricultural Experiment Station, College Park, Md. (36). 1890. **C M**

Patterson, J. Edward, Pensauken, N. J. (66). **C F**

Patterson, John C., M. D., 177 Union Ave., Batavia, Ill. (60). **K**

*Patterson, John Thomas, Ph. D., Adjunct Professor of Zoology, University of Texas, Austin, Texas. (61). 1913. **F**

Patterson, T. H. Hoge, 4231 Walnut St., Philadelphia, Pa. (65).

Patterson, Thomas Leon, Professor of Biology, University of Maryland, Baltimore, Md. (61). **F**

Patthey, Henry L., 2622 Clinton Ave., Minneapolis, Minn. (56).

*Pattillo, Nathan Allen, Ph. D., Professor of Mathematics, Randolph-Macon Woman's College, College Park, Va. (60). 1915. **A**

Pattison, Charles E., 1182 Broadway, New York, N. Y. (57). **D**

*Patton, Horace Bushnell, Ph. D., Professor of Geology and Mineralogy, Colorado School of Mines, Golden, Colo. (37). 1901. **E**

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Patton, William Augustus, Radnor, Pa. (65).

*Paul, Henry Martyn, U. S. N., The Ontario, Washington, D. C. (33). 1885. **A B**

Paull, Leslie Fairbanks, Associate Professor of Horticulture, State Agricultural College, Fort Collins, Colo. (54). **G**

Paullin, J. Edgar, M. D., 612–614 Peters Building, Atlanta, Ga. (62). **K**

Paulsen, Thomas Christian, 506 Government St., Baton Rouge, La. (61). **K**

*Payne, Bruce Ryburn, Ph. D., President, George Peabody College for Teachers, Nashville, Tenn. (55). 1907. H L

*Payne, Fernandus, Assistant Professor of Zoology, Indiana University, Bloomington, Ind. (65). 1915. F

Payne, Henry Mace, Sc. D., Ph. D., P. O. Box 427, Southold, L. I., N. Y. (58). D E

*Peabody, Charles, Ph. D., Peabody Museum, Cambridge, Mass. (58). 1908. H

Peabody, George A., 9203 Union St., Cleveland, Ohio. (63).

Peabody, George Foster, LL. D., Saratoga Springs, N. Y. (50).

*Peabody, James Edward, Scarsdale, N. Y. (61). 1913. F

Peabody, Mary Brown, All Saints School, Sioux Falls, S. D. (52). F G

*Pearce, Edward Douglas, P. O. Box 977, Providence, R. I. (57). 1908. C

*Pearce, Haywood Jefferson, Ph. D., President, Brenau College, Gainesville, Ga. (63). 1914. H

*Pearce, James Edwin, Principal, Austin High School, Austin, Texas. (51). 1913. H

*Pearce, Richard Mills, Jr., M. D., Professor of Research Medicine, University of Pennsylvania, Philadelphia, Pa. (56). 1911. K

*Pearl, Raymond, Ph. D., Professor of Biology, Maine Agricultural Experiment Station, Orono, Me. (53). 1905. F

*Pearse, Arthur Sperry, Ph. D., Associate Professor of Zoology, University of Wisconsin, Madison, Wis. (54). 1910. F

Pearson, Gustaf Adolph, U. S. Forest Service, Flagstaff, Ariz. (60). G M

*Pearson, Henry Carr, Principal, Horace Mann School, 501 West 120th St., New York, N. Y. (58). 1910. L

Pearson, John T., 900 Torrey Building, Duluth, Minn. (65).

Pearson, Preston W., M. D., Emory, Texas. (60). K

*Pearson, Raymond Allen, LL. D., President, Iowa State College, Ames, Iowa. (49). 1901. I

*Peary, Robert Edwin, LL. D., Rear Admiral, U. S. N., Retired, Army and Navy Club, Washington, D. C. (63). 1915. A D

Pease, Miss Clara A., Public High School, Hartford, Conn. (47). E

Pease, Elizabeth De Kalb, Brookline High School, Brookline, Mass. (66). M

Pease, Frederic N., P. O. Box 503, Altoona, Pa. (58). C

Pease, Herbert Dodge, M. D., 39 West 38th St., New York, N. Y. (63). K

Peaslee, Leon Denning, Ph. D., Curator of Education, Public Museum, Milwaukee, Wis. (63). E F

Peavy, George Wilcox, Head, Department of Forestry, Oregon State Agricultural College, Corvallis, Ore. (63). G M

Peck, Charles E., 2 East 45th St., New York, N. Y. (57).

*PECK, CHARLES HORTON, Sc. D., State Botanist, Geological Hall, Albany, N. Y. (52). 1906. G

*Peck, Frederick Burritt, Ph. D., Professor of Mineralogy and Geology, Lafayette College, Easton, Pa. (49). 1907. **E**

Peck, James E., Calexico, Cal. (65).

Peck, John Sedgwick, E. E., 4 Groby Place, Altrincham, England. (60). **D**

*Peck, Samuel S., 3741 Waialae Road, Honolulu, Hawaii. (58). 1911. **C**

Peck, William Adorno, C. E., 1643 Champa St., Denver, Colo. (19). **D**

*Peckham, William Clark, Professor of Physics, Adelphi College, Brooklyn, N. Y. (54). 1906. **A B**

Pedersen, James, M. D., 40 East 41st St., New York, N. Y. (57). **K**

*Peebles, Florence, Ph. D., Professor of Biology, Newcomb College, Tulane University, New Orleans, La. (62). 1913. **F**

*Peed, Mansfield Theodore, Professor of Mathematics and Astronomy, Emory College, Oxford, Ga. (53). 1909. **A**

Peek, William A., M. D., 1403 Lewis St., Helena, Mont. (60). **K**

Peet, Charles Emerson, Lewis Institute, Chicago, Ill. (58).

Peffer, Elmer L., 5619 Colorado Ave., N. W., Washington, D. C. (63). **B**

*Pegram, George Braxton, Ph. D.. Assistant Professor of Physics, Columbia University, New York, N. Y. (52). 1905. **B**

Pegram, George Herndon, C. E., 223 Vose Ave., South Orange, N. J. (62). **D**

Peirce, George, 721 Euclid Ave., Roland Park, Baltimore, Md. (64). **C K**

*Peirce, George James, Ph. D., Professor of Botany, Leland Stanford Junior University, Stanford University, Cal. (44). 1897. **G**

*Peirce, Harold, 222 Drexel Building, Philadelphia, Pa. (33). 1913. **H I**

Peirson, Charles L., 191 Commonwealth Ave., Boston, Mass. (60).

Pelo, William J., Editor, Silver, Burdett and Co., 221 Columbus Ave., Boston, Mass. (60). **L**

*Pember, Frederick R., Assistant Plant Physiologist, Rhode Island Agricultural Experiment Station, Kingston, R. I. (58). 1911. **G**

Pemberton, Ralph, M. D., 2224 Locust St., Philadelphia, Pa. (60). **K**

Pendleton, Edwin Conway, Rear-Admiral, U. S. N., Windermere Hotel, Philadelphia, Pa. (65).

*Pendleton, Ellen Fitz, LL. D., President, Wellesley College, Wellesley, Mass. (60). 1915. **A**

Pendleton, Francis Key, 7 East 86th St., New York, N. Y. (57).

Pendleton, Frank E., M. E., 140 Cedar St., New York, N. Y. (60). **D**

Pendleton, Robert L., 2342 Eunice St., Berkeley, Cal. (65).

Pennell, William W., M. D., 205 North Main St., Mt. Vernon, Ohio. (51). **K**

Penney, Rupert L., M. E., 80 Willard St., Westville Station, New Haven, Conn. (58). **D**

PENNIMAN, JOSIAH HARMAR, Ph. D., LL. D., Vice-Provost, University of Pennsylvania, Philadelphia, Pa. (65).

*Pennington, Leigh H., Ph. D., Professor of Botany, N. Y. State College of Forestry, Syracuse, N. Y. (62). 1915. **G**

*Pennington, Mary Engle, Ph. D., 405 Lancaster Ave., St. Davids, Pa. (47). 1900. **C F G K**

Penny, Charles L., Professor of Agricultural Chemistry, Delaware College, Newark, Del. (60). **C**

*Penrose, Charles Bingham, M. D., Ph. D., LL. D., 1720 Spruce St., Philadelphia, Pa. (51). 1911. **B E F K**

Penrose, Clement A., M. D., 21 West Mt. Royal Ave., Baltimore, Md. (60). **K**

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PENTECOST, CAPT. E. H., Barrack Tor, Topsfield, Mass. (60).

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*Pepper, George Hubbard, 10 East 33d St., New York, N. Y. (48). 1900. **H**

*Perisho, Ellwood Chappell, LL. D., Professor of Geology, S. D. State College of A. and M. Arts, Brookings, S. D. (61). 1911. **E**

PERKINS, ARTHUR, 14 State St., Hartford, Conn. (31). **A B**

*Perkins, Frank Walley, The Farragut, Washington, D. C. (52). 1911. **B**

Perkins, G. Howard, Jr., 5 Irving Terrace, Cambridge, Mass. (63).

*Perkins, George Henry, Ph. D., LL. D., Professor of Geology, University of Vermont, Burlington, Vt. (17). 1882. **E H**

*Perkins, Henry Augustus, Professor of Physics, Trinity College, Hartford, Conn. (63). 1913. **B**

Perkins, Henry Cleveland, E. M., 1701 Connecticut Ave., Washington, D. C. (60). **D**

*Perkins, Henry Farnham, Ph. D., Professor of Zoology, University of Vermont, Burlington, Vt. (52). 1909. **F**

Perkins, Jacob Henry, M. D., Gassilis Ave., Armour Villa Park, Bronxville, N. Y. (60). **I**

*Perkins, R. C. L., Sc. D., Park Hill House, Paignton, South Devon, England. (58). 1913. **F**

*Perkins, Roger Griswold, M. D., 1481 East Boulevard, Cleveland, Ohio. (64). 1915. **K**

PERKINS, WILLIAM H., Park Avenue Hotel, New York, N. Y. (57).

*PERRINE, CHARLES DILLON, Sc. D., Astronomer, Observatorio Nacional, Cordoba, Argentina, S. A. (51). 1903. **A**

*Perrine, Irving, Ph. D., Associate Professor of Geology, University of Oklahoma, Norman, Okla. (65). 1915. **E**

Perrine, Miss Lura L., 609 Normal Ave., Valley City, N. D. (47). **E F G H**

Perritt, Louisa Ellen, care Dr. F. C. Gates, 933 High St., Grinnell, Iowa. (63). **H K**

*Perrow, Mosby Garland, Ph. D., Lynchburg, Va. (58). 1911. **C G L**

*Perry, Arthur C., 226 Halsey St., Brooklyn, N. Y. (43). 1896. **A B**

Perry, Thomas Sergeant, 312 Marlborough St., Boston, Mass. (50). I

Pershing, Howell Terry, M. D., LL. D., 1169 Race St., Denver, Colo. (54). K

Peskind, Arnold, M. D., 2414 East 55th St., Cleveland, Ohio. (51). K

*Peter, Alfred Meredith, Professor of Soil Technology, Kentucky Agricultural Experiment Station, Lexington, Ky. (57). 1911. C

*Peters, Amos William, Ph. D., Biochemist, Research Department, Training School for Feeble Minded Children, Vineland, N. J. (53). 1908. F K

Peters, Charles Adams, Ph. D., South Sunset Ave., Amherst, Mass. (63). C

Peters, Prof. Clayton Ames, Polytechnic Institute, Brooklyn, N. Y. (46). B G

Peters, Edward Dyer, E. M., Professor of Metallurgy, Harvard University, Cambridge, Mass. (60). D

*Peters, Edward T., Box 1, Station H, Washington, D. C. (33). 1889. I

*Peters, George Henry, U. S. Naval Observatory, Washington, D. C. (60). 1913. B

*Peters, William John, 405 The Ontario, Washington, D. C. (57). 1909. B

Petersen, Niels Frederick, Plainview, Nebr. (50). G

Peterson, Alfred Olaf, M. D., 203 Ramge Building, Omaha, Nebr. (64). K

Peterson, Elmer George, Ph. D., Professor of Bacteriology and Physiology, Agricultural College of Utah, Logan, Utah. (63). K

*Peterson, Frederick, M. D., Ph. D., 20 West 50th St., New York, N. Y. (49). 1901. F K

Peterson, Henry, Sandy, Utah. (65).

Peterson, John C., Tooele, Utah. (66).

*Peterson, Joseph, Ph. D., Professor of Psychology, University of Utah, Salt Lake City, Utah. (58). 1911. H

*Peterson, Olof August, Carnegie Museum, Pittsburgh, Pa. (55). 1911. F

*Peterson, William, Professor of Geology and Mineralogy, Agricultural College of Utah, Logan, Utah. (64). 1915. E

Peterson, William A., Superintendent, U. S. Experiment Farm, Mandan, N. D. (60). G

*Petrunkévitch, Alexander, Ph. D., Zoological Laboratory, New Haven, Conn. (54). 1906. F

Petry, Edward Jacob, 267 Wood St., West La Fayette, Ind. (63). C G

*Petry, Loren Clifford, Department of Botany, Syracuse University, Syracuse, N. Y. (63). 1915. G

*Pettee, Charles Holmes, Dean and Professor of Mathematics, New Hampshire College, Durham, N. H. (47). 1908. A

Pettee, Charles L. W., care Hartford Laboratory Co., Hartford, Conn (58). C

Petterson, Christian A., 3922 Lowell Ave., Chicago, Ill. (52). A L

Pettibone, Chauncey J. V., M. D., University of Minnesota, Minneapolis, Minn. (64). K

Pettigrew, Charles Louis, 528-29 Grant Building, Atlanta, Ga. (65). A B

*Pettit, Rufus Hiram, Professor of Entomology, Michigan Agricultural College, East Lansing, Mich. (56). 1913. F

Pfeiffer, Felix, M. D., 943 Madison Ave., New York, N. Y. (63). K

*Pfeiffer, Norma Etta, Department of Biology, University of North Dakota, Grand Forks, N. D. (62). 1915. G

*Pfeiffer, Wanda May, Ph. D., University of Chicago, Chicago, Ill. (60). 1915. G

Pfister, Joseph Clement, Professor of Physics, Columbia University, New York, N. Y. (58). A B D

Pfordte, Otto F., E. M., Cairo, N. Y. (57). E

*Phelps, Earle Bernard, Hygienic Laboratory, Washington, D. C. (60). 1911. C

*Phelps, Edward Bunnell, Editor, *The American Underwriter*, 500 West 122d St., New York, N. Y. (62). 1915. I

Phelps, Gurley S., U. S. Engineer Office, Toledo, Ohio. (63).

*Phelps, Isaac King, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. C

*Phillips, Alexander Hamilton, Sc. D., 54 Hodge Road, Princeton, N. J. (58). 1911. F

*Phillips, Everett Franklin, Ph. D., Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (58). 1910. F

*PHILLIPS, FRANCIS CLIFFORD, Ph. D., Professor of Chemistry, University of Pittsburgh, Pittsburgh, Pa. (36). 1889. C

Phillips, G. C., 10 High St., Auburn, Me. (63). C

*PHILLIPS, JOHN C., M. D., Windyknob, Wenham, Mass. (52). 1913. F K

*Phillips, John Lloyd, P. O. Box 78, Staunton, Va. (52). 1906. F

Phillips, Paul C., M. D., Professor of Physical Education and Hygiene, Amherst College, Amherst, Mass. (63). K

Phillips, Miss Ruth Laura, Western College, Oxford, Ohio. (64). F

Phillips, William F. R., M. D., Professor of Anatomy, School of Medicine, University of Alabama, Mobile, Ala. (62). K

*Phillips, William J., U. S. Entomological Laboratory, Charlottesville, Va. (60). 1915. F

*Phipps, Henry, 1063 Fifth Ave., New York, N. Y. (57). 1915. I

PHIPPS, LAWRENCE COWLE, C. E., 1154 Colfax Ave., Denver, Colo. (51). D

Picard, Maurice, 97 West 163d St., New York, N. Y. (63). F G

Pickard, Greenleaf Whittier, E. E., Amesbury, Mass. (63). D

*Pickering, Edward Charles, Sc. D., Ph. D., LL. D., Director, Astronomical Observatory, Harvard College, Cambridge, Mass. (18). 1875. A B

*Pickett, Fermen Layton, Associate Professor of Plant Physiology, State College of Washington, Pullman, Wash. (65). 1915. G

Pickett, William Douglas, 228 Campsie Place, Lexington, Ky. (41). **D I**

Pickman, Dudley L., 98 Beacon St., Boston, Mass. (60).

Pierce, Alfred Lawrence, E. E., 65 South Elm St., Wallingford, Conn. (58). **D**

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Pierce, Francis Leslie, U. S. Department of Agriculture, Washington, D. C. (63). **G**

*PIERCE, NEWTON BARRIS, Pacific Coast Laboratory, U. S. Department of Agriculture, Santa Ana, Cal. (49). 1901. **G**

Pierce, Sloan J., R. F. D. 4, Warren, Ohio. (50). **E**

*Pierce, W. Dwight, U. S. Department of Agriculture, Washington, D. C. (58). 1913. **F**

Pierrepont, John Jay, 1 Pierrepont Place, Brooklyn, N. Y. (57). **A**

*Piersol, George Arthur, M. D., Sc. D., Professor of Anatomy, University of Pennsylvania, Philadelphia, Pa. (50). 1902. **F K**

Piersol, Dr. W. H., 26 Albany Ave., Toronto, Canada. (63).

*Pieters, Adrian John, Department of Botany, University of Michigan, Ann Arbor, Mich. (58). 1909. **G**

*Pike, Frank Henry, Ph. D., Assistant Professor of Physiology, Columbia University, New York, N. Y. (57). 1910. **F K**

Pikler, Armin Henry, E. E., Üllöi-ut 30, Budapest, Hungary. (57). **B C D**

*Pillsbury, John Elliot, Rear Admiral, U. S. N., 1755 Q St., N. W., Washington, D. C. (33). 1898. **B D E**

Pillsbury, Joshua P., Professor of Horticulture, North Carolina College of A. and M. Arts, West Raleigh, N. C. (64). **G**

*Pillsbury, Walter Bowers, Ph. D., Professor of Psychology, University of Michigan, Ann Arbor, Mich. (64). 1913. **H**

Pilsbry, Henry Augustus, Sc. D., 23 Bala Ave., Bala, Pa. (66). **E F**

*Pinchot, Gifford, Sc. D., LL. D., 1615 Rhode Island Ave., Washington, D. C. (47). 1899. **G**

Ping, C., 107 Harvard Place, Ithaca, N. Y. (65).

Pinkerton, Thomas C., care Baugh & Son, Morris St. Wharf, Philadelphia, Pa. (60). **C**

Pinkus, Frederick S., 70 East 56th St., New York N. Y. (57).

Pinney, Mrs. Augusta Robinson, 178 Main St., Orange, N. J. (44). **F G**

*Pintner, Rudolf, Ph. D., Ohio State University, Columbus, Ohio. (64). 1914. **H L**

*Piper, Charles Vancouver, U. S. Department of Agriculture, Washington, D. C. (53). 1905. **F G**

Pirtle, George W., M. D., Carlisle, Ind. (60). **K**

Pitkin, Walter B., Associate Professor of Philosophy, Columbia University, New York, N. Y. (58). **L**

*Pittier, H., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1910. **E G H**

Pitts, Thomas Dorsey, 2432 North Charles St., Baltimore, Md. (51). **B**

Plagge, Herbert J., Station A, Ames, Iowa. (61).

*Plant, Prof. Louis Clark, Michigan Agricultural College, East Lansing, Mich. (63). 1914. **A**

Plapp, Frederick William, 4140 North Keeler Ave., Irving Park Station, Chicago, Ill. (52). **E F G L**

Platt, Charles, M. D., Ph. D., Hamilton Court, 39th and Chestnut Sts., Philadelphia, Pa. (58). **C K**

Platt, Harold Birdsall, 423 West 118th St., New York, N. Y. (60).

Plaut, Albert, 28 East 76th St., New York, N. Y. (50).

Pleasants, J. Hall, M. D., 806 University Parkway, Baltimore, Md. (60). **K**

*Plimpton, George Arthur, 70 Fifth Ave., New York, N. Y. (47). 1907. **A**

*Plowman, Amon Benton, Ph. D., Carroll College, Waukesha, Wis. (50). 1911. **B**

Plunkett, Charles Timothy, Vice-President, Cotton Manufacturing Co., Adams, Mass. (60). **D**

Poats, Thomas Grayson, Associate Professor of Physics, Clemson Agricultural College, Clemson College, S. C. (50). **B**

Podlesak, Henry Joseph, E. E., 1636 Millard Ave., Chicago, Ill. (60). **D**

Poetschke, Paul, Department of Chemistry, L. D. Caulk Co., Milford, Del. (60). **C**

*Poffenberger, Albert Theodore, Jr., Columbia University, New York, N. Y. (65). 1915. **H**

Pogue, Grace Luella, State Normal School, Lewiston, Idaho. (63). **C**

*Pogue, Joseph E., Ph. D., Associate Professor of Geology and Mineralogy, Northwestern University, Evanston, Ill. (62). 1911. **E**

Pogue, Mary E., M. D., Lake Geneva, Wis. (58). **K**

*Pohlman, Augustus Grote, M. D., Professor of Anatomy, St. Louis University School of Medicine, St. Louis, Mo. (58). 1913. **F**

Pole, Arminius C., M. D., 2038 Madison Ave., Baltimore, Md. (51). **H K**

Polk, William Mecklenberg, M. D., LL. D., 310 Fifth Ave., New York, N. Y. (57). **K**

Pollak, Francis Deak, 55 West 73d St., New York, N. Y. (57).

*Pollard, Charles Louis, Curator, Staten Island Association of Arts and Sciences, New Brighton, N. Y. (44). 1899. **F G**

*Pollitzer, Sigmund, M. D., 51 East 60th St., New York, N. Y. (55). 1911. **K**

*Pollock, James Barkley, Sc. D., Assistant Professor of Botany, University of Michigan, Ann Arbor, Mich. (58). 1909. **G**

Pomainville, Frank, M. D., Grand Rapids, Wis. (60). **K**

Pomeroy, Charles Taylor, Ph. D., 319 Belleville Ave., Newark, N. J. (43). **C**

Pomeroy, Fred E., Professor of Biology, Bates College, Lewiston, Me. (62). **F**

Pomeroy, John C., Iowa State College, Ames, Iowa. (64). **B**

Pomeroy, Robert Watson, 1006–12 Fidelity Building, Buffalo, N. Y. (65).

*Pond, Francis Jones, Ph. D., Professor of Chemistry, Stevens Institute of Technology, Hoboken, N. J. (54). 1906. C

*Pond, George Gilbert, Ph. D., Professor of Chemistry, Pennsylvania State College, State College, Pa. (51). 1903. C

Pond, Robert S., Ph. D., University of Georgia, Athens, Ga. (62). A

Ponzer, Ernest William, Assistant Professor of Mathematics, Leland Stanford Junior University, Stanford University, Cal. (62). A

Pool, Frank J., 1906 East 105th St., Cleveland, Ohio. (62). F

*Pool, Raymond John, Ph. D., Professor of Botany, University of Nebraska, Lincoln, Nebr. (57). 1911. G

*Pool, Miss Venus Worrell, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). 1915. G

*Poor, Charles Lane, Ph. D., Professor of Celestial Mechanics, Columbia University, New York, N. Y. (55). 1907. A B

*Poor, John Merrill, Ph. D., Professor of Astronomy, Dartmouth College, Hanover, N. H. (52). 1906. A

Poore, Orson Birney, Hearling High School, Aurora, Minn. (65).

Pope, Curran, M. D., 115 West Chestnut St., Louisville, Ky. (60). K

POPE, GEORGE A., Kohl Building, 400 Montgomery St., San Francisco, Cal. (65).

Popoff, Prof. Stephen, 550 Delhi St., Dubuque, Iowa. (65). B C

Porter, Mrs. Albert Brown, 1024 Lake Shore Drive, Evanston, Ill. (65).

*Porter, Prof. Carlos E., C. M. Z. S., Casilla 2974, Santiago, Chile, S. A. (64). 1915. F

Porter, H. Hobart, E. E., M. E., 52 William St., New York, N. Y. (50). D

Porter, Rev. Henry Dwight, D. D., P. O. Box 206, La Mesa, Cal. (65).

Porter, Henry Kirke, LL. D., 1600 I St., Washington, D. C. (50). D

Porter, James Edward, Manufacturing Chemist and Analyst, 205 West Genesee St., Syracuse, N. Y.. (50). C

*Porter, James F., Hubbard Woods, Ill. (58). 1914. F

*Porter, James P., Ph. D., Professor of Psychology, Clark University, Worcester, Mass. (60). 1911. F H L

Porter, Joseph Yates, M. D., State Health Officer, Jacksonville, Fla. (60). K

*Porter, Royal Arthur, Professor of Physics, Syracuse University, Syracuse, N. Y. (54). 1906. B D

Porter, Thomas Lansing, Professor of Physics, University of Cincinnati, Cincinnati, Ohio. (58). B

Porter, William Henry, M. D., 46 West 83d St., New York, N. Y. (57). C F K

Posada, Dr. Juan de la Cruz, E. M., Medillin, Antioquia, Colombia, S. A. (60). D

*Posey, Chessley Justin, University of Minnesota, Minneapolis, Minn. (62). 1915. E

Posse, Baroness Rose, President, Posse Gymnasium, 779 Beacon St., Boston, Mass. (52).

*Post, Charles Alfred, Bayport, Long Island, N. Y. (49). 1901. **A**

Pott, John N., E. M., 710 No. O St., Tacoma, Wash. (60). **D**

Potter, Albert F., 1307 P St. N. W., Washington, D. C. (62).

*Potter, Alden Archibald, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1915. **G**

Potter, Miss Blanch, 33 East 38th St., New York, N. Y. (57).

Potter, George Sabine, 1827 Pacific Ave., San Francisco, Cal. (66).

Potter, Mary Goddard, M. D., 39 West 60th St., New York, N. Y. (60). **K**

Potter, Nathan S., Jr., 515 South Second St., Independence, Kans. (60). **C**

*Potts, Louis Maxwell, Ph. D., 2221 No. Charles St., Baltimore, Md. (54). 1906. **B D**

*Pound, Roscoe, Ph. D., LL. D., Professor of Jurisprudence, Harvard Law School, Cambridge, Mass. (54). 1906. **G**

Powel, Colonel de Veaux, 29 Broadway, New York, N. Y. (50). **D E**

Powel, Samuel W., C. E., 679 Auburn Ave., Buffalo, N. Y. (60). **A B C**

Powell, Frederick James, 313 Stuyvesant Park, North, New York, N. Y. (54). **A B D**

Powell, Phillips Bayard, Clinton, N. Y. (58). **F**

*Powell, S. L., Roanoke College, Salem, Va. (61). 1915. **E**

Powell, Thomas, M. D., 922 Washington Building, Los Angeles, Cal. (41). **K**

*Powelson, Wilfred Van Nest, E. E., 60 Wall St., New York, N. Y. (58). 1915. **D**

Power, Frank W., Oregon Nursery Co., Orenco, Oregon. (57). **F G**

*Power, Frederick Belding, Ph. D., LL. D., 535 Warren St., Hudson, N. Y. (31). 1887. **C**

Power, Henry D'Arcy, M. D., Burlingame, Cal. (66). **K**

Power, Walter B., M. D., 233 Cajon St., Redlands, Cal. (62). **K**

Powers, E. O., M. D., Masonic Temple, Baton Rouge, La. (60). **K**

*Powers, Joseph H., Ph. D., Professor of Zoology, University of Nebraska, Lincoln, Neb. (62). 1911. **F**

*Powers, Le Grand, 3357 18th St., Washington, D. C. (51). 1902. **I L**

Poynter, Charles William M., Professor of Anatomy, College of Medicine, Omaha, Neb. (62). **K**

*Praeger, William Emilius, Kalamazoo College, Kalamazoo, Mich. (53). 1911. **F G**

Prager, William Louis, Ph. D., College of the City of New York, New York, N. Y. (62). **C**

Prather, John McClellan, Ph. D., Department of Biology, Soldan High School, St. Louis, Mo. (52). **F**

*Pratt, Alexander, Jr., Ph. D., 1221 Stratford Ave., Bridgeport, Conn. (50). 1913. **H I**

Pratt, Benjamin H., 2143 Rose St., Berkeley, Cal. (66).

*Pratt, Frederick Haven, M. D., 57 Tillinghast Place, Buffalo, N. Y. (56). 1911. F K L

*Pratt, Henry Sherring, Ph. D., Professor of Biology, Haverford College, Haverford, Pa. (57). 1909. F

Pratt, John Francis, U. S. Coast and Geodetic Survey, 204 Burke Bldg., Seattle, Wash. (54). A

Pratt, Joseph Hersey, M. D., 317 Marlborough St., Boston, Mass. (62). K

*Pratt, Joseph Hyde, Ph. D., Professor of Economic Geology, University of North Carolina, Chapel Hill, N. C. (49). 1902. E I

Pratt, Wallace E., Division of Mines, Bureau of Science, Manila, P. I. (65.

Prendergast, William A., Comptroller, City of New York, New York, N. Y. (58). I L

Prentiss, Francis F., 3328 Euclid Ave., Cleveland, Ohio. (63).

Prentiss, Miss Henrietta, 11½ West 84th St., New York, N. Y. (57). F G

Prentiss, Henry James, M. D., Iowa City, Iowa. (64). K

*Prescott, Samuel Cate, Professor of Biology, Massachusetts Institute of Technology, Boston, Mass. (51). 1906. C F K

Price, Abel Fitzwater, M. D., Medical Director, U. S. N., 2233 Q St., Washington, D. C. (60). K

Price, Charles P., Manager, American Tar Co., P. O. Box 2705, Boston, Mass. (63). D

*Price, Harvey Lee, Adjunct Professor of Horticulture, Agricultural Experiment Station, Blacksburg, Va. (52). 1911. G

Price, Homer Charles, Professor of Rural Economics and Dean, College of Agriculture, Ohio State University, Columbus, Ohio. (63). G M

Price, J. Meday, Box 12A, R. D. 1, Thermal, Cal. (58). C D

Price, Raymond B., care U. S. Rubber Co., 58th St. and Broadway, New York, N. Y. (64).

Price, Robert C., Miller School, Va. (58). C

Price, Robert Henderson, R. F. D. 2, Blacksburg, Va. (50). G

Price, Weston A., D. D. S., 10406 Euclid Ave., Cleveland, Ohio. (48). B C

Price, William Armstrong, Ph. D., W. Va. University Library, Morgantown, W. Va. (64). E

Price, William J., Jr., Virginia Polytechnic Institute, Blacksburg, Va. (60). F

Pricer, John Lossen, Professor of Biology, Illinois State Normal University, Normal, Ill. (62). G L

*Prichard, Margaret S., Philadelphia Normal School, 13th and Spring Garden Sts., Philadelphia, Pa. (60). 1915. H

*Priest, Irwin G., Bureau of Standards, Washington, D. C. (63). 1914. B

Priest, Prof. Ward C., St. Lawrence University, Canton, N. Y. (63). B

*Prince, John Dyneley, Ph. D., Sterlington, N. Y. (49). 1913. H L

*Prindle, Louis Marcus, U. S. Geological Survey, Washington, D. C. (55). 1908. E

Prinz, Hermann, M. D., Department of Dentistry, University of Pennsylvania, Philadelphia, Pa. (60). K

Pritchard, Fred J., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C.

Pritchard, William Broaddus, M. D., 143 West 72d St., New York, N. Y. (51). **H K**

Pritchard, William P., M. D., 923 2d St., Fall River, Mass. (60). **K**

Pritchett, Eliza Esther, 220 West 120th St., New York, N. Y. (62). **G**

*Proctor, Charles Albert, Assistant Professor of Physics, Dartmouth Clolege, Hanover, N. H. (53). 1906. **A B C**

Proffitt, Max J., care Great Western Sugar Co., Denver, Colo. (55). **F**

*Prosser, Charles Smith, Sc. D., Ph. D., Professor of Geology, Ohio State University, Columbus, Ohio. (33). 1891. **E**

Proudfit, Alexander Couper, Princeton, N. J. (47). **I**

*Prouty, William Frederick, Ph. D., Assistant State Geologist and Professor of Geology, University of Alabama, University, Ala. (56). 1911. **E**

Provine, John William, Ph. D., Professor of Chemistry, Mississippi College, Clinton, Miss. (54). **C**

Pryer, Charles, P. O. Box 2, New Rochelle, N. Y. (49).

*Pryor, Joseph William, M. D., 261 North Broadway, Lexington, Ky. (60). 1911. **K**

*Puckner, William August, 535 Dearborn Ave., Chicago, Ill. (58). 1911. **C L**

Puga, Guillermo B., C. E., Avenue 13, No. 2303, Los Pinos, Zacubaya, Mexico, D. F., Mex. (58). **D**

Pullen, Myrick Whiting, Johns Hopkins University, Baltimore, Md. (60). **D**

Pulsifer, Harrie Bridgman, M. E., Armour Institute of Technology, Chicago, Ill. (58). **C E**

*Pumpelly, Prof. Raphael, Newport, R. I. (62). 1911. **E**

Puorro, Michael, Teacher of Biology, Commercial High School, Brooklyn, N. Y. (62). **F**

*PUPIN, MICHAEL I., Sc. D., Ph. D., LL. D., Professor of Electro-Mechanics, Columbia University, New York, N. Y. (44). 1896. **B**

*Purdue, Albert Homer, LL. D., State Geological Survey, Nashville, Tenn. (50). 1906. **E**

Purington, Mrs. Elizabeth H., East Hall, University of California, Berkeley, Cal. (66).

*Puryear, Charles, Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Tex. (51). 1906. **A**

*Putnam, Edward K., Acting Director, Davenport Academy of Sciences, Davenport, Iowa. (58). 1909. **H**

*Putnam, Miss Elizabeth D., 2013 Brady St., Davenport, Iowa. (45). 1913. **H**

*Putnam, Frederic Ward, Sc. D., Emeritus Professor of Anthropology, Harvard University, Cambridge, Mass. (10). 1874. **F H**

Putnam, Helen Cordelia, M. D., LL. D., Rhode Island Ave., Providence, R. I. (60). **K**

Putnam, Henry St. Clair, E. E., 100 Broadway, New York, N. Y. (47). **DE**

Putnam, John Jacob, Ph. D., Head, Department of Bacteriology, University of Idaho, Moscow, Idaho. (66). K

*Putnam, Thomas Milton, University of California, Berkeley, Cal. (64). 1915. A

PUTNAM, WILLIAM LOWELL, 49 Beacon St., Boston, Mass. (60).

Putt, Earl Berger, Food Inspection Laboratory, U. S. Appraisers Stores, New York, N. Y. (63).

Pyatt, Charles W., 519 Flint St., Rochester, N. Y. (64). I

Pyle, William Henry, Ph. D., 138 Giles St., Ithaca, N. Y. (53). I

Quain, Eric P., M. D., Bismarck, N. D. (60). K

*Quaintance, Altus Lacy, U. S. Department of Agriculture, Washington, D. C. (51). 1903. F

*Quayle, Henry Josef, Professor of Entomology, Citrus Experiment Station, Riverside, Cal. (55). 1913. F

Quick, Miss Marsha A., East Setauket, L. I., N. Y. (64). F

Quillian, Marvin Clarke, Professor of Biology and Geology, Wesleyan College, Macon, Ga. (65). E F G

Quinan, Clarence, M. D., 391 Sutter St., San Francisco, Cal. (66). K

Quincy, Mary A., M. D., Ashland, Nebr. (60). K

*Quinn, John James, Ph. D., Pittsburgh College, Pittsburgh, Pa. (52). 1905. A

Radcliffe, George Corlett, M. D., Peninsula, Ohio. (60). K

Radcliffe, Lewis, U. S. Bureau of Fisheries, Washington, D. C. (65). F

Radosavljevich, Paul R., New York University, New York, N. Y. (65).

Rafferty, Rev. Patrick, S. J., Professor of Physics, Holy Cross College, Worcester, Mass. (66). B

*Rahn, Otto, Ph. D., Assistant Professor of Bacteriology, University of Illinois, Urbana, Ill. (62). 1913. K

RAHT, CHARLES, P. O. Box 828, New York, N. Y. (57).

*Raiford, Lemuel Charles, Kent Laboratory, University of Chicago, Chicago, Ill. (65). 1915. C

Railsback, John B., Forbing, La. (62). C G

Rainey, Frank Lewis, Professor of Biology, Central University, Danville, Ky. (58). F K

Rall, Edward Everett, Professor of Education, University of Tennessee, Knoxville, Tenn. (63). H L

*Ramaley, Francis, Ph. D., Professor of Biology, University of Colorado, Boulder, Colo. (45). 1899. G

Rambaud, George Gibier, M. D., New York Pasteur Institute, New York, N. Y. (58). K

*Ramsey, Rolla Roy, Ph. D., Associate Professor of Physics, Indiana University, Bloomington, Ind. (50). 1906. B

Ramsperger, Herman G., 370 Manhattan Ave., New York, N. Y. (64). I

Ranck, Samuel Haverstick, Librarian, Public Library, Grand Rapids, Mich. (54). I

Rand, Charles L., 618 Jefferson Ave., Brooklyn, N. Y. (58). **B C H**

*Rand, Herbert Wilbur, Ph. D., Assistant Professor of Zoology, Harvard University, Cambridge, Mass. (51). 1905. **F**

Randall, Burton Alexander, M. D., Ph. D., 1717 Locust St., Philadelphia, Pa. (51). **K**

Randall, Frank E., 444 Park Ave., New York, N. Y. (57).

*Randall, Harrison McAllister, Junior Professor of Physics, University of Michigan, Ann Arbor, Mich. (63). 1913. **B**

Randall, Jacob S., C. E., Dana, Ind. (63). **D**

Randall, Mrs. Jacob S., R. R., Chrisman, Ill. (63).

Randall, John L., U. S. Bureau of Education, Washington, D. C. (60). **F**

*Randall, Dr. Merle, 205 South 6th St., Poplar Bluff Mo. (60). 1914. **C**

Randall, Otis Everett, Ph. D., Professor of Mechanics and Mechanical Drawing, Brown University, Providence, R. I. (57). **A B D**

Randle, E. H., LL. D., Hernando, Miss. (64). **F**

Randolph, Beverley S., C. E., E. M., Berkeley Springs, W. Va. (50). **D E**

Randolph, E. F., Jr., M. E., 527 West 34th St., New York, N. Y. (65). **D**

Randolph, Eldred Oscar, Charleston College, Charleston, S. C. (66). **E F**

Randolph, Evan, Seminole and Chestnut Avenues, Chestnut Hill, Philadelphia, Pa. (65).

*Randolph, Harriet, Ph. D., The Gables, Ardmore, Pa. (58). 1913. **F**

Rands, Robert D., 421 Lorch St., Madison, Wis. (65). **G**

*Rane, Frank William, State Forester, 6 Beacon St., Boston, Mass. (42). 1900. **F G I L M**

Rankin, H. D., President, Rankin Chemical Reduction Co., 389 Ridge Ave., Crafton, Pa. (54). **B C**

Rankin, Herbert E., Cherry Hill, South Pearl St., Albany, N. Y. (61).

*Rankin, Walter Mead, Ph. D., Professor of Biology, Princeton University, Princeton, N. J. (51). 1905. **F G**

Ranly, John, M. D., 936 Clark St., Cincinnati, Ohio. (60). **K**

Ransohoff, Joseph, M. D., Cincinnati, Ohio. (51). **K**

*Ransom, Brayton Howard, Ph. D., Chief, Division of Zoology, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (57). 1911. **F**

*Ransom, James Harvey. Ph. D., Professor of General Chemistry, Purdue University, La Fayette, Ind. (54). 1909. **C D**

*Ransome, Frederick Leslie, Ph. D., U. S. Geological Survey, Washington, D. C. (52). 1903. **E**

*Ranum, Arthur, Ph. D., Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. (63). 1914. **A**

Rapp Isaiah March, Ursinus College, Collegeville, Pa. (65).

Rasely, Edwin R., M. D., Uniontown, Pa. (60). **K**

Rasor, S. E., Professor of Mathematics, Ohio State University, Columbus, Ohio. (66). **A**

Ratcliffe, J. J., M. D., Aitkin, Minn. (63). **K**

Rathborne, Richard Charles, C. E., 107 East 70th St., New York, N. Y. (57). **D**

*Rathbun, Miss Mary Jane, U. S. National Museum, Washington, D. C. (52). 1906. **F**

*Rathbun, Richard, Sc. D., Smithsonian Institution, Washington, D. C. (40). 1892. **F**

Ratliff, R. F., Central Normal College, Danville, Ind. (60). **A**

*Rattan, Volney, 1510 Euclid Ave., Berkeley, Cal. (65). 1915.

Rau, Albert George, Ph. D., Superintendent, Moravian Parochial School, Bethlehem, Pa. (50). **A B**

Rau, Philip, 4932 Botanical Ave., St. Louis, Mo. (62). **F**

Raubenheimer, Otto, 1341 Fulton St., Brooklyn, N. Y. (58). **B C G K**

Rauschenberg, Oscar Caldwell, E. E., Southern Bell Telephone and Telegraph Co., Albany, Ga. (60). **D**

Rawl, Bernard Hazelius, Chief, Dairy Division, U. S. Department of Agriculture, Washington, D. C. (66). **F M**

RAY, BENJAMIN H., 2006 Girard Ave., Philadelphia, Pa. (63).

Raycroft, Joseph Edward, M. D., Professor of Hygiene, Princeton University, Princeton, N. J. (58). **K**

Rayevsky, Charles, M. D., Liberty, N. Y. (60). **K**

Raymer, George Sharp, 51 Brattle St., Cambridge, Mass. (50). **D E**

Raymond, Daniel V., 325 Fairmont Ave., Tompkinsville, N. Y. (57).

Raymond, Prof. George Lansing, 24 St. James Park, Los Angeles, Cal. (58). **L**

*Raymond, Howard Monroe, E. E., Dean, Armour Institute of Technology, Chicago, Ill. (58). 1915. **D**

*Raymond, Percy Edward, Ph. D., Assistant Professor of Paleontology, Museum of Comparative Zoology, Cambridge, Mass. (57). 1911. **E F**

Raymond, Reginald Irving, University of the South, Sewanee, Tenn. (64). **F**

*Raymond, Rossiter Worthington, Ph. D., LL. D., 29 West 39th St., New York, N. Y. (15). 1875. **B C D E I K**

*Rea, Paul Marshall, Director, The Charleston Museum, Charleston, S. C. (53). 1915. **F**

*Read, Edmund E., Jr., 604 Cooper St., Camden, N. J. (54). 1906. **A**

Read, Effie Alberta, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). **C F**

Read, Melbourne Stuart, Ph. D., Vice-President and Professor of Psychology, Colgate University, Hamilton, N. Y. (66). **H L**

Read, Mrs. Robert M., 4 Ashland St., Medford, Mass. (57). **F G**

*Reade, John Moore, Ph. D., Professor of Botany, University of Georgia, Athens, Ga. (56). 1911. **G**

*Reagan, Prof. Albert B., U. S. Indian School, Ibapah, Utah. (53). 1911. **E H**

Reames, Eleanor Elmire, Ph. D., Newcomb Memorial College, Tulane University, New Orleans, La. (64). **B**

Reber, Wendell, M. D., 1212 Spruce St., Philadelphia, Pa. (60). **K**

Réche, Miss Eugénie M., 31 Howell St., Rochester, N. Y. (41). **E H**

Reckefus, Charles H., Jr., M. D., 506 North 6th St., Philadelphia, Pa. (51). **F K**

*Record, Samuel J., Assistant Professor of Forest Products, Yale University Forest School, New Haven, Conn. (62). 1915. **G M**

Records, Ralph L., Professor of Chemistry and Physics, Transylvania University, Lexington, Ky. (66). **C**

Rector, Frank Leslie, M. D., 36 41st St., Brooklyn, N. Y. (60). **C K**

*Reddick, Donald, Ph. D., Professor of Plant Pathology, Cornell University, Ithaca, N. Y. (56). 1911. **G**

Redfield, Alfred C., Concord, Mass. (65). **F**

Redgrave, Commander D. Clinton, U. S. N., 1505 Bolton St., Baltimore, Md. (60). **A D**

Reed, Carlos S., Direcion General de Industrias, Mendoza, Argentina, S. A. (61). **F**

Reed, Charles Bert, M. D., 3748 Sheffield Ave., Chicago, Ill. (65). **K**

*Reed, Charles John, 520 Head Building, San Francisco, Cal. (34). 1904. **B C**

*Reed, Frank Walker, Ph. D., Department of Astronomy, University of Illinois, Urbana, Ill. (58). 1910. **A**

*Reed, George Matthew, Ph. D., Professor of Botany, University of Missouri, Columbia, Mo. (60). 1911. **G**

Reed, Guilford B., 16 Conant Hall, Cambridge, Mass. (66). **G**

*Reed, Howard Sprague, Ph. D., Professor of Plant Physiology, Citrus Experiment Station, Riverside, Cal. (53). 1909. **C G**

*Reed, Hugh Daniel, Ph. D., Assistant Professor of Vertebrate Zoology, Cornell University, Ithaca, N. Y. (49). 1906. **F L**

Reed, John B., 3759 McKinley St., Chevy Chase, D. C. (60). **C**

*Reed, John Oren, Ph. D., Dean, Department of Literature, Science and Arts, University of Michigan, Ann Arbor, Mich. (44). 1898. **B**

Reed, John T., E. M., Lovelocks, Nevada. (60). **D**

Reed, Leander Nelson, E. E., 9 Van Guilder Terrace, New Rochelle, N. Y. (60). **D**

*Reed, Raymond Clinton, Professor of Bacteriology, Delaware College, Newark, Del. (60). 1911. **K**

*Reed, William Gardner, Department of Geography, University of California, Berkeley, Cal. (60). 1915. **E**

Reeder, J. Dawson, M. D., 639 North Fulton Ave., Baltimore, Md. (60). **K**

Reeder, John T., 318 College Ave., Houghton, Mich. (63).

*Reeds, Chester Albert, Ph. D., Assistant Curator of Geology and Invertebrate Paleontology, American Museum of Natural History, New York, N. Y. (60). 1911. **E**

Reemelin, Edward B., M. D., 3471 Cheviot Ave., Station L, Cincinnati, Ohio. (60). **K**

Rees, Harry L., Plant Pathologist, Western Washington Experiment Station, Puyallup, Washington. (62). **G**

*Reese, Albert Moore, Ph. D., Professor of Zoology, West Virginia University, Morgantown, W. Va. (52). 1906. **F**

Reese, Arnold K., E. M., The Red House, Victoria Road, Penarth, Wales. (60). **D**

*Reese, Herbert M., Ph. D., 911 Lowry St., Columbia, Mo. (49). 1906. **B**

*Reese, Stanley Chester, Ph. D., 628 College Ave., East Liberty Station, Pittsburgh, Pa. (58). 1909. **A D**

*Reeves, George I., 322 H St., Salt Lake City, Utah. (57). 1913. **F**

Regan, John Ward, 51 Waltham St., Lexington, Mass. (58). **A B D L**

*Rehder, Alfred, 62 Orchard St., Jamaica Plain, Mass. (60). 1911. **G**

*Reichert, Edward Tyson, M. D., Sc. D., Professor of Physiology, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **F H K**

*Reichmann, Fritz, Ph. D., 56 Pine St., New York, N. Y. (54). 1906. **B**

*Reid, Harry Fielding, Ph. D., Professor of Dynamic Geology and Geography, Johns Hopkins University, Baltimore, Md. (36). 1893. **E**

Reifsnyder, Samuel K., 703 First Ave., Asbury Park, N. J. (50). **B C L**

Reigart, John Franklin, 31 Euclid Ave., Yonkers, N. Y. (53). **L**

*Reighard, Jacob, Professor of Zoology, University of Michigan, Ann Arbor, Mich. (51). 1904. **F**

Reimer, Arthur Adams, C. E., 45 South Maple Ave., East Orange, N. J. (60). **D**

Reinoso, Ezequiel A., Apartado 1108, Lima, Peru, S. A. (60). **C**

Reist, Henry Gerber, M. E., 110 Avon Road, Schenectady, N. Y. (50). **D G**

Reiter, Frank Horace, Department of Psychology, University of Pennsylvania, Philadelphia, Pa. (66). **H**

Rejall, Prof. Alfred E., 54 Tompkins Place, Brooklyn, N. Y. (63). **H**

*Remington, Joseph Price, Ph. D., Director Philadelphia College of Pharmacy, Philadelphia, Pa. (54). 1906. **K**

Remington, Roe Eugene, Professor of Chemistry, N. D. Agricultural College, Agricultural College, N. D. (60). **C**

*Remsen, Ira, M. D., Ph. D., LL. D., Johns Hopkins University, Baltimore, Md. (22). 1875. **C**

Renick, Frank H., 1424 Belmont Avenue, Seattle, Wash. (65).

Rettger, Ernest William, Ph. D., Assistant Professor of Applied Mechanics, Cornell University, Ithaca, N. Y. (61). **B D**

*Rettger, Leo Frederick, Ph. D., Professor of Bacteriology, Connecticut Agricultural Experiment Station, New Haven, Conn. (60). 1911. **K**

*Retzer, Robert, M. D., Assistant Professor of Anatomy, University of Chicago, Chicago, Ill. (60). 1911. **K**

*Revell, Dr. Daniel Graisberry, Provincial Bacteriologist, P. O. Drawer 5211, Strathcona, Alberta, Canada. (58). 1911. **K**

Rew, Irwin, 1128 Ridge Ave., Evanston, Ill. (58).

Reyling, Frederic F., M. D., 1004 Oak St., Kansas City, Mo. (58). **K**

Reynolds, Edward, M. D., Readville, Mass. (60). **K**

*Reynolds, Frederick Gregory, Assistant Professor of Mathematics, College of the City of New York, New York, N. Y. (58). 1910. **A**

Reynolds, R. V., Alabama Marble Co., Gantts Quarry, Ala. (65).

Rhamy, Bonnelle W., M. D., Fort Wayne, Ind. (60). **K**

Rhodes, Frederick A., M. D., 632 Herron Ave., Pittsburgh, Pa. (60). **K**

*RHODES, JAMES FORD, LL. D., 392 Beacon St., Boston, Mass. (50). 1904. **I**

Ricard, Jerome Sixtus, Ph. D., Observatory, University of Santa Clara, Santa Clara, Cal. (65). **A**

*Rice, Edward Loranus, Ph. D., Professor of Zoology, Ohio Wesleyan University, Delaware, Ohio. (43). 1905. **F**

Rice, Edwin Wilbur, Jr., E. E., Sc. D., President, General Electric Co., Schenectady, N. Y. (50). **D**

Rice, Emily J., School of Education, University of Chicago, Chicago, Ill. (61). **L**

Rice, George Samuel, Chief Mining Engineer, U. S. Bureau of Mines, Pittsburgh, Pa. (62). **D**

Rice, Lepine Hall, 113 Concord Place, Syracuse, N. Y. (58). **A**

*Rice, Martin Everett, Associate Professor of Physics and Electrical Engineering, University of Kansas, Lawrence, Kans. (50). 1906. **B D**

*Rice, William North, Ph. D., LL. D., Professor of Geology, Wesleyan University, Middletown, Conn. (18). 1874. **E F L**

*Rich, John Lyon, Ph. D., Department of Geology, University of Illinois, Urbana, Ill. (60). 1914. **E**

Rich, Michael P., M. D., 32 West 88th St., New York, N. Y. (40). **K**

Rich, Mrs. T. Hudson, 1820 Delancey Place, Philadelphia, Pa. (65).

*Richards, Aute, Department of Zoology, University of Texas, Austin, Texas. (62). 1915. **F**

*RICHARDS, EDGAR, 60 Ayrault St., Newport, R. I. (31). 1886. **C**

*Richards, Herbert Maule, Sc. D., Ph. D., Professor of Botany, Barnard College, Columbia University, New York, N. Y. (51). 1902. **G**

*Richards, Horace Clark, Ph. D., Professor of Mathematical Physics, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **A B**

*Richards, Robert Hallowell, LL. D., Emeritus Professor of Mining Engineering and Metallurgy, Massachusetts Institute of Technology, Boston, Mass. (22). 1875. **D**

*Richards, Theodore William, Sc. D., Ph. D., LL. D., Professor of Chemistry, Harvard University, Cambridge, Mass. (47). 1899. **B C**

Richards, Theodore Wright, Surgeon, U. S. Navy, Bureau of Medicine and Surgery, Navy Department, Washington, D. C. (63). **K**

Richardson, Major Charles A., Canandaigua, N. Y. (50). **I**

*Richardson, Charles Henry, Ph. D., Professor of Geology and Mineralogy Syracuse University, Syracuse, N. Y. (47). 1906. **E**

Richardson, Charles Williamson, M. D., 1317 Connecticut Ave. N. W., Washington, D. C. (49). **K**

*Richardson, Clifford, Consulting Engineer, Woolworth Building, New York, N. Y. (30). 1884. **C D**

Richardson, David Porter, M. D., Henderson, Texas. (60). **K**

*Richardson, George Burr, Ph. D., U. S. Geological Survey, Washington, D. C. (55). 1907. **E**

*Richardson, Mark Wyman, M. D., Secretary, State Board of Health, State House, Boston, Mass. (51). 1903. **K**

Richardson, Roy S., 387*a* McDonough St., Brooklyn, N. Y. (58).

Richardson, Russell, M. D., Newtown, Pa. (58). **K**

*Richardson, William D., Chief Chemist, Swift & Co., Chicago, Ill. (56). 1908. **C**

Richardson, William D., P. O. Box 185, Fredericksburg, Va. (52). **C F**

Richey, Stephen O., Ph. D., 732 17th St. N. W., Washington, D. C. (54).

Richmond, William Henry, E. M., Richmond Hill, Scranton, Pa. (50). **D E**

Richter, Clemens M., M. D., 209 Post St., S. W., San Francisco, Cal. (60). **K**

Richtmann, William Oscar, Satsuma Heights, Fla. (58). **C G**

Ricker, Maurice, 1039 19th St., Des Moines, Iowa. (50). **F**

*Ricker, Nathan Clifford, D. Arch., Professor of Architecture, University of Illinois, Urbana, Ill. (50). 1906. **D**

*Ricker, Percy Leroy, U. S. Department of Agriculture, Washington, D. C. (52). 1906. **G**

Ricketts, Louis Davidson, E. M., 42 Broadway, New York, N. Y. (50). **D E**

*Ricketts, Palmer Chamberlaine, C. E., LL. D., President, Rensselaer Polytechnic Institute, Troy, N. Y. (33). 1887. **A D**

*Ricketts, Pierre de Peyster, Ph. D., 80 Maiden Lane, New York, N. Y. (26). 1880. **C D E**

Ricketts, Col. R. Bruce, Wilkes-Barre, Pa. (33). **E**

Ridder, Herman, *New York Staats Zeitung*, 182 William St., New York, N. Y. (57). **I L**

*Riddle, Lincoln Ware, Ph. D., Associate Professor of Botany, Wellesley College, Wellesley, Mass. (52). 1910. **G**

*Riddle, Oscar, Ph. D., Carnegie Laboratory, Cold Spring Harbor, N. Y. (58). 1910. **F**

Ridgway, Charles Sylvester, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (62). **G**

Riedel, J. Charles, C. E., 505 Macon St., Brooklyn, N. Y. (60). **D**

Rieger, Joseph, M. D., 509 Central Ave., Dunkirk, N. Y. (60). **K**

Ries, Elias Elkan, E. E., 116 Nassau St., New York, N. Y. (33). **B D H I K**

*Ries, Heinrich, Ph. D., Head, Department of Geology, Cornell University, Ithaca, N. Y. (41). 1898. **E**

Riesman, David, M. D., Professor of Clinical Medicine, University of Pennsylvania, Philadelphia, Pa. (51). **K**

*Rietz, Henry Lewis, Ph. D., Professor of Mathematics, University of Illinois, Urbana, Ill. (51). 1906. **A**

*Riffle, Franklin, care Dunham, Carrigan and Hayden Co., San Francisco, Cal. (65). 1915.

Rigby, William C., 902 Chamber of Commerce Building, Chicago, Ill. (58).

Rigdon, Rufus L., M. D., 621 Chronicle Building, San Francisco, Cal. (60). K

*Rigg, George Burton, University of Washington, Seattle, Wash. (63). 1915. G

Rigg, Gilbert, Palmerton, Pa. (64). C

*Rigge, Rev. William Francis, S. J., Professor of Astronomy and Physics, Creighton University, Omaha, Neb. (62). 1913. A B

Riggs, Elmer S., Field Museum of Natural History, Chicago, Ill. (64).

Riggs, John D., M. E., 707 Court St., Kankakee, Ill. (60). D

Riggs, Morris John, C. E., Manager, Toledo Plant, American Bridge Co., 3136 Collingwood Ave., Toledo, Ohio. (60). D

*Riggs, Norman Colman, Associate Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. (54). 1907. A D

*Riggs, Robert Baird, Ph. D., Professor of Chemistry, Trinity College, Hartford, Conn. (50). 1901. C

Riggs, Theodore F., M. D., Pierre, S. D. (60). K

Rightor, Fred Elmer, Texas Bitulithic Co., Austin, Tex. (60). D

Rigling, Alfred, Librarian, Franklin Institute, Philadelphia, Pa. (63).

Riker, Clarence B., South Orange, N. J. (52). F

Riley, Charles Frederick Curtis, Professor of Biology, State Normal School, Milwaukee, Wis. (57). C F G

*Riley, Isaac Woodbridge, Ph. D., Professor of Philosophy, Vassar College, Poughkeepsie, N. Y. (52). 1904. H I

Riley, Morgan T., 628 West 114th St., New York, N. Y. (64).

*Riley, William Albert, Ph. D., Professor of Entomology, Cornell University, Ithaca, N. Y. (54). 1908. F

*Rines, David, U. S. Patent Office, Washington, D. C. (63). 1913. A

Ringer, Adolphus Irving, Ph. D., Assistant Professor of Physiological Chemistry, University of Pennsylvania School of Medicine, Philadelphia, Pa. (63). K

Ripley, G. E., University of Arkansas, Fayetteville, Ark. (61). G

Ripley, Joseph, C. E., M. E., 350 Western Ave., Albany, N. Y. (66). D

*Risley, Walter John, Professor of Mathematics, James Millikin University, Decatur, Ill. (62). 1914. A

Risser, Jonathan, Professor of Zoology, Washburn College, Topeka, Kans. (62). F

Ritchey, James Warren, Hughes High School, Cincinnati, Ohio. (64). B

Ritchey, Joseph C., American Steel and Wire Co., Cleveland, Ohio. (63).

Ritchie, Mrs. Charlotte W., Philadelphia College of Pharmacy, Philadelphia, Pa. (63). C I L

*Rittenhouse, Elmer Ellsworth, 25 West 45th St., New York, N. Y. (64). 1915. I

Rittenhouse, Samuel, Ph. D., Associate Professor of Zoology, University of Southern California, Los Angeles, Cal. (62). **F**

*Ritter, William Emerson, Ph. D., Director, Scripps Institute for Biological Research, LaJolla, Cal. (50). 1901. **F H**

Rives, George Lockhart, LL. D., 69 East 79th St., New York, N. Y. (58). **I**

*Rixford, Emmet, M. D., 1795 California St., San Francisco, Cal. (60). 1911. **K**

Rixford, Gulian P., C. E., 1813 Pierce St., San Francisco, Cal. (63). **D G**

*Robb, William Lispenard, Ph. D., LL. D., P. O. Box 592, Troy, N. Y. (58). 1910. **B D**

Robbins, Gilbert E., M. D., Chillicothe, Ohio. (60). **K**

Robbins, Mrs. Lulu W., 4204 Terrace St., Oakland, Cal. (65).

*Robbins, Wilfred W., Department of Botany and Forestry, State Agricultural College, Fort Collins, Colo. (63). 1915. **G M**

Robbins, William Bradford, M. D., 384 Commonwealth Ave., Boston, Mass. (60). **K**

Robbins, William Jacob, Department of Botany, N. Y. State College of Agriculture, Syracuse, N. Y. (65). **G**

Robert, Daniel R., M. D., 184 Joralemon St., Brooklyn, N. Y. (66). **K**

Robert, Henry Martyn, Brigadier General, U. S. A., Retired, Owego, N. Y. (54). **A E I L**

Robert, Joseph C., M. D., Director, School of Agriculture, Agricultural College, Miss. (66). **K M**

ROBERT, SAMUEL, 906 Park Ave., New York, N. Y. (57).

*Roberts, Charlotte Fitch, Ph. D., Professor of Chemistry, Wellesley College, Wellesley, Mass. (60). 1911. **C**

Roberts, Christopher H., 10 Washington Place, New York, N. Y. (57). **F**

Roberts, Elmer, College of Agriculture, Urbana, Ill. (65). **G**

*Roberts, Hon. George Evan, Treasury Department, Washington, D. C. (58). 1915. **I**

Roberts, H. L., Professor of Agriculture, State Normal School, Cape Girardeau, Mo. (52). **E F G**

Roberts, Herbert Fuller, Professor of Botany, Kansas State Agricultural College, Manhattan, Kans. (63). **G**

*Roberts, John Bingham, M. D., 313 South 17th St., Philadelphia, Pa. (55). 1911. **K**

Roberts, John M., Secretary, Central Scientific Co., 345-349 West Michigan St., Chicago, Ill. (58).

*Roberts, John William, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1915. **G**

Roberts, P. R., Washington Boro, Pa. (58). **B C D F H I L**

Roberts, Thomas Paschall, C. E., 361 North Craig St., Pittsburgh, Pa. (51). **D**

*Roberts, Thomas Sadler, M. D., 1603 4th Ave., South, Minneapolis, Minn. (61). 1911. **K**

*Robertson, Alice, Ph. D., Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (54). 1909. **F K**

*Robertson, Charles, 305 Orient St., Carlinville, Ill. (53). 1906. **F**

Robertson, Charles Barr, Professor of Secondary Education, University of Pittsburgh, Pittsburgh, Pa. (63). **L**

Robertson, Prof. George, 152 The Terrace, Redlands, Cal. (66).

Robertson, James, U. S. Naval Observatory, Washington D. C. (63). **A**

Robertson, James Wilson, LL.D., Chairman, Royal Commission on Industrial Training and Technical Education, Ottawa, Canada. (66). **D L M**

Robertson, John McB., care Jorgenson Contract, Waipahu, Oahu, Hawaii. (65).

Robertson, W. Rees B., 1420 Ohio St., Lawrence, Kansas. (61). **F**

Robertson, William M., M. D., Warren, Pa. (60). **K**

Rovinovitch, Louise G., M. D., P. O. Box 1023, New York, N. Y. (57). **K**

*Robinson, Benjamin Lincoln, Ph. D., Curator, Gray Herbarium, Cambridge, Mass. (41). 1893. **G**

*Robinson, Mrs. Daisy M. Orleman, M. D., 159 West 49th St., New York, N. Y. (40). 1897. **K**

Robinson, Emma C., 56 Crary Ave., Mt. Vernon, N. Y. (60). **L**

*Robinson, G. Canby, M. D., Washington University Medical School, St. Louis, Mo. (62). 1914. **K**

Robinson, John Knowlton, E. E., 104 Pearl St., New York, N. Y. (60). **D**

Robinson, Lewis Archibald, Ph. D., Bay Ridge High School, Brooklyn, N. Y. (64). **H L**

ROBINSON, REV. LUCIEN MOORE, D.D., Philadelphia Divinity School, 5000 Woodlawn Ave., Philadelphia, Pa. (66).

*Robinson, Philip Ely, Ph. D., 2401 Willard St., Wilmington, Del. (58). 1910. **A B C D**

Robinson, Sanford, C. E., E. M., Room 1400, Union Trust Building, Los Angeles, Cal. (50). **D**

*Robinson, William Orrin, U. S. Department of Agriculture, Washington, D. C. (58). 1911. **C**

*Robinson, Winifred Josephine, Ph. D., Dean, Women's Affiliated Colleges of Delaware, Newark Del. (55). 1911. **G**

Robison, Clarence H., State Normal School, Montclair, N. J. (60). **F G L**

Rochester, DeLancey, M. D., 469 Franklin St., Buffalo, N. Y. (35). **F K**

Rockey, Alpha E., M. D., Electric Building, Portland, Ore. (51). **K**

*Rockwood, Elbert William, M. D., Ph. D., Professor of Chemistry and Toxicology, State University of Iowa, Iowa City, Iowa. (50). 1906. **C K**

Rockwood, Lawrence Peck, 416 Vermont Building, Salt Lake City, Utah. (65). **M**

Roddy, Harry Justin, Ph. D., Professor of Geology and Geography, State Normal School, Millersville, Pa. (57). **B E**

Rodgers, George Branner, E. E., 1724 Magnolia Ave., Knoxville, Tenn. (58). **D**

Rodgers, T. G., East Las Vegas, New Mexico. (62). **A**

*Roe, Edward Drake, Jr., Ph. D., Professor of Mathematics, Syracuse University, Syracuse, N. Y. (50). 1906. **A**

Roehr, Charles G., M. D., P. O. Box 327, Fort Pierce, Fla. (58). **K**
Roesler, Max, 137 West 85th St., New York, N. Y. (62). **D**
Roessler, Franz, 89 High St., Perth Amboy, N. J. (39). **C**
*Roever, William Henry, Ph. D., Washington University, St. Louis, Mo. (53). 1906. **A**
*Rogers, Arthur Curtis, M. D., LL. D., Faribault, Minn. (60). 1911. **K**
*Rogers, Austin Flint, Associate Professor of Mineralogy and Petrography, Leland Stanford Junior University, Stanford University, Cal. (65). 1915. **E**
Rogers, Burton Ray, Kansas State Agricultural College, Manhattan, Kans. (62). **F K**
*Rogers, Charles Gardner, Ph. D., Associate Professor of Physiology, Syracuse University, Syracuse, N. Y. (57). 1909. **F K**
*Rogers, Fred. A., E. E., Professor of Electrical Engineering and Physics, Lewis Institute, Chicago, Ill. (60). 1915. **D**
*Rogers, Frederick John, Stanford University, Cal. (65). 1915. **B**
Rogers, Frederick Terry, 5604 Maryland Ave., Chicago, Ill. (64).
Rogers, John, M. D., 102 East 30th St., New York, N. Y. (64). **K**
Rohn, Minna Mary, Ph. D., 3803 Clinton Ave., Cleveland, Ohio. (63). **F**
Rohrer, Caleb W. G., M. D., Associate Professor of Pathology, College of Physicians and Surgeons, Baltimore, Md. (58). **F K**
Rolfe, Frank, 1631 Council St., Los Angeles, Cal. (65).
*Rolfs, Fred M., Clemson College, S. C. (65). 1915. **G**
*Rolfs, Peter Henry, Director, Florida Agricultural Experiment Station, Gainesville, Fla. (41). 1899. **G**
Roller, G. H., 221 East Michigan St., Marquette, Mich. (64).
Romer, Miss Caroline S., 154 2d Ave., Newark, N. J. (62). **A**
Rominger, Louis, M. D., 1414 Highland Ave., Louisville, Ky. (60). **K**
Rommel, George McCullough, Chief, Animal Husbandry Division, U. S. Department of Agriculture, Washington, D. C. (66). **M**
*Rood, James Theron, Ph. D., Professor of Electrical Engineering, Lafayette College, Easton, Pa. (58). 1915. **A B D**
Roop, Hervin Ulysses, Ph. D., President, Eastern College, Manassas, Va. (58). **H I K**
Roop, Wendell Prescott, University of California, Berkeley, Cal. (63). **B**
Roosevelt, W. E., P. O. Box 1222, New York, N. Y. (57).
*Root, Hon. Elihu, The Connecticut, Washington, D. C. (50). 1901. **I**
Roper, Gertrude L., 404 Hubbard Ave., Detroit, Mich. (60). **A B**
*Rorer, James Birch, Board of Agriculture, Trinidad, B. W. I. (51). 1911. **G**
*Rorer, Jonathan Taylor, Ph. D., Head, Department of Mathematics, Wm. Penn High School for Girls, Philadelphia, Pa. (47). 1906. **A D L**
*Rosa, Edward Bennett, Ph. D., Chief Physicist, Bureau of Standards, Washington, D. C. (39). 1892. **B I**
Rosanoff, A. J., Kings Park, N. Y. (64).
*Rosanoff, Martin André, Sc. D., Professor of Research Chemistry, Mellon Institute of Industrial Research, Pittsburgh, Pa. (60). 1910. **C**
Rose, Dean Humboldt, Mountain Grove, Mo. (65). **G**

*Rose, Joseph Nelson, Ph. D., Smithsonian Institution, Washington, D. C. (52). 1905. G

Rose, Mary D. Swartz, Ph. D., Assistant Professor, Department of Nutrition, Teachers College, Columbia University, New York, N. Y. (60). C

*Rosenau, Milton Joseph, M. D., Professor of Hygiene and Preventive Medicine, Harvard University, Cambridge, Mass. (51). 1906. K

*Rosenbloom, Jacob, M. D., Ph. D., School of Medicine, University of Pittsburgh, Pittsburgh, Pa. (57). 1911. C K

*Rosendahl, Carl Otto, Ph. D., Professor of Botany, University of Minnesota, Minneapolis, Minn. (58). 1909. G

*Rosenfeld, Arthur H., Estacion Experimental Agricola, Tucuman, Argentina, S. A. (57). 1914. F

*Rosengarten, George D., Ph. D., P. O. Box 1625, Philadelphia, Pa. (58). 1911. C

Rosengarten, Joseph George, LL. D., 1704 Walnut St., Philadelphia, Pa. (65).

Rosenkrans, Duane B., South Carolina Agricultural Experiment Station, Clemson College, S. C. (63). G

Rosenow, Edward Carl, M. D., 5804 Washington Ave., Hyde Park, Chicago, Ill. (62). K

*Ross, Bennett Battle, Professor of Chemistry, Alabama Polytechnic Institute, Auburn, Ala. (45). 1906. C

*Ross, Denman Waldo, Ph. D., 24 Craigie St., Cambridge, Mass. (29). 1906.

Ross, Prof. Hannaniah H., Point Loma, Cal. (58). C

*Ross, Luther Sherman, Professor of Zoology and Bacteriology, Drake University, Des Moines, Iowa. (61). 1915. F

Ross, Perley Ason, Department of Physics, Leland Stanford Junior University, Stanford University, Cal. (62). B

Ross, William Horace, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (65). G

Ross, William J., M. D., 13 John St., Clayton, N. Y. (60). K

*Rothermel, John Goodhart, Director, Wagner Free Institute of Science, Philadelphia, Pa. (53). 1915. E F

Rothermel, John Jacob, Department of Physics, Eastern High School, Washington, D. C. (51). B D L

*Rothrock, David Andrew, Ph. D., Professor of Mathematics, Indiana University, Bloomington, Ind. (58). 1908. A D L

Rothwell, William P., M. D., 26 High St., Pawtucket, R. I. (60). K

*Rouiller, Charles August, Ph. D., Johns Hopkins University, Baltimore, Md. (58). 1911. C

Round, Lester Angell, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (66). K

Roush, G. A., 925 University Ave., Madison, Wis. (60). C

*Rowe, Jesse Perry, Ph. D., Professor of Physics and Geology, University of Montana, Missoula, Mont. (52). 1911. B E

Rowlands, Charles, 45 Metcalfe St., Montreal, Can. (58). C

*Rowlee, Willard Winfield, Sc. D., Professor of Botany, Cornell University, Ithaca, N. Y. (41). 1894. G

Rowley, Prof. Robert R., 1115 N. C. St., Louisiana, Mo. (62). F

*Roy, Arthur J., C. E., Dudley Observatory, Albany, N. Y. (50). 1908. A

*Royce, Josiah, Sc. D., Ph. D., LL. D., Professor of History of Philosophy, Harvard University, Cambridge, Mass. (57). 1909. H

*Ruckmich, Christian Alban, Ph. D., University of Illinois, Urbana, Ill. (63). 1914. H

Ruddle, John, C. E., P. O. Box 331, Mauch Chunk, Pa. (60). D

Rudisch, Julius, M. D., 39 East 63d St., New York, N. Y. (57). K

*Rudnick, Paul, 10640 South Seeley Ave., Chicago, Ill. (60). 1915. C

Rudolph, Cuno H., President, Second National Bank, Washington, D. C. (62).

*Ruedemann, Rudolf, Ph. D., Assistant State Paleontologist, Education Building, Albany, N. Y. (52). 1906. E

Ruediger, Gustav Ferdinand, M. D., Ph. D., La Salle, Ill. (58). K

*Ruediger, William Carl, Ph. D., Professor of Educational Psychology, George Washington University, Washington, D. C. (58). 1910. H L

*Ruehle, Godfrey L. A., New York Agricultural Experiment Station, Geneva, N. Y. (65). 1915. G

*Ruger, Henry Alford, Ph. D., 854 West 181st St., New York, N. Y. (54). 1911. H L

*Ruggles, Arthur Gordon, Assistant Professor of Entomology, Agricultural Experiment Station, University Farm, St. Paul, Minn. (58). 1913. F

Ruhl, Louis, E. M., 100 William St., New York, N. Y. (58). C D

Ruiz, Manuel Felix, 253 West 109th St., New York, N. Y. (62).

*Rumbold, Miss Caroline, Department of Botany, University of Pennsylvania, Philadelphia, Pa. (53). 1913. G

Rumsey, William Earle, Professor of Entomology, West Virginia Agricultural Experiment Station, Morgantown, W. Va. (58). F

Rundlett, David L., M. D., P. O. Box 148, Sioux Falls, S. D. (60). K

*Runkle, Erwin William, Ph. D., Professor of Psychology and Ethics, Pennsylvania State College, State College, Pa. (58). 1911. H L

Runner, George A., 1644 West Grace St., Richmond, Va. (58). F

*Running, Theodore Rudolph, Ph. D., Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (50). 1906. A

*Runyan, Elmer Gardner, Hutchins Building, 10th and D Sts., N. W., Washington, D. C. (58). 1911. C D E

Rupf, Ernest L., M. E., 181 New York Ave., West New Brighton, N. Y. (60). D

Rupp, August, Associate Professor of Latin, College of the City of New York, New York, N. Y. (35). E L

Rush, Raymond C., M. D., P. O. Box 225, Hudson, Ohio. (64). F K

*Rusk, Glanville Yeisley, M. D., University of California, Berkeley, Cal. (54). 1915. K

*Russell, Col. A. H., U. S. A., War Department, Washington, D. C. (38). 1906. D

Russell, Bert, Capitol View, Md. (58). C F G K
Russell, Charles, R. F. D. 1, Bartow, Fla. (65). C
Russell, H. M., Compton, Cal. (58). F
*Russell, Harry Luman, M. D., Ph. D., Dean, College of Agriculture, University of Wisconsin, Madison, Wis. (41). 1894. K
*Russell, Henry Norris, Ph. D., Professor of Astronomy, Princeton University, Princeton, N. J. (54). 1906. A
*Russell, James Earl, Ph. D., LL. D., Dean, Teachers College, Columbia University, New York, N. Y. (50). 1901. H L
Russell, Miss Ruth C., Lovington, Ill. (65).
Russell, Thomas Hubbard, M. D., 137 Elm St., New Haven, Conn. (54). K
Russell, William Polk, Assistant Professor of Mathematics, Pomona College, Claremont, Cal. (60). A
Ruth, Warren Albert, 901 West Illinois St., Urbana, Ill. (63). C
Rutherford, W. J., Ph. D., Dean, College of Agriculture, University of Saskatchewan, Saskatoon, Canada. (66). M
*Ruthven, Alexander Grant, Ph. D., Assistant Professor of Zoology, University of Michigan, Ann Arbor, Mich. (54). 1913. F
Rutkauskas, Anthony Kazis, M. D., 2302 Leavitt St., Chicago, Ill. (58). K
Ruttan, Robert Fulford, M. D., Professor of Organic and Biological Chemistry, McGill University, Montreal, Canada. (63). C
Ruzicka, D. J., M. D., 334 East 72d St., New York, N. Y. (60). K
Ryan, Andrew Howard, M. D., University of Alabama School of Medicine, Mobile, Ala. (63). K
*Ryan, Harris Joseph, E. E., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Cal. (38). 1890. B D
*Rydberg, Per Axel, Ph. D., Curator, New York Botanic Garden, Bronx Park, New York, N. Y. (49). 1901. G
RYERSON, MARTIN ANTOINE, Corn Exchange Bank Building, 134 South La Salle St., Chicago, Ill. (58).
Ryfkogel, Henry A. L., M. D., 162 Post St., San Francisco, Cal. (60). K
Sabichi, George Carlos, M. D., 1620 17th St., Bakersfield, Cal. (60). K
*Sabin, Alvah Horton, M. E., 432 Sanford Ave., Flushing, L. I., N. Y. (60). 1911. C
*Sabin, Florence Rena, M. D., Associate Professor of Anatomy, Johns Hopkins University, Baltimore, Md. (57). 1910. K
*Sabine, Wallace Clement, Sc. D., Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. (47). 1900. B
Sachs, Adolph, M. D., 604 City National Bank, Omaha, Nebr. (64). K
Sackett, C. Harold, Park Hotel, St. Louis, Mo. (63). G
Sackett, Leroy W., Ph. D., Department of Education, University of Texas, Austin, Texas. (66). L
*Sackett, Robert Lemuel, C. E., Dean, Engineering School, Pennsylvania State College, State College, Pa. (50). 1915. D
*Sackett, Walter George, Bacteriologist, Agricultural Experiment Station, Fort Collins, Colo. (32). 1911. G K
Sadler, William Samuel, M. D., 32 North State St., Chicago, Ill. (58). K

Sadowski, Leon, M. D., cor. Webster and Herron Aves., Pittsburgh, Pa. (58). **K**

*Sadtler, Samuel Philip, Ph. D., LL. D., 39 South Tenth St., Philadelphia, Pa. (51). 1904. **C**

*Saegmuller, George N., 762 St. Paul St., Rochester, N. Y. (38). 1891. **A D**

*Safford, Frederick Hollister, Ph. D., Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (54). 1906. **A B D**

*Safford, William Edwin, U. S. Department of Agriculture, Washington, D. C. (55). 1911. **E F G H I**

*Sage, John Hall, Secretary, American Ornithologists' Union, Portland, Conn. (23.) 1906. **F**

Sailer, Joseph, M. D., Professor of Clinical Medicine, University of Pennsylvania, Philadelphia, Pa. (65). **K**

*St. John, Charles Edward, Ph. D., Mt. Wilson Solar Observatory, Pasadena, Cal. (46). 1900. **A B**

St. John, E. Quintard, M. D., 1833 Chestnut St., Philadelphia, Pa. (60). **C K**

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Salathé, Frederick. Ph. D., 822 East Third St., Los Angeles, Cal. (51). **C**

Salinger, David, M. D., 103 State St., Chicago, Ill. (60). **K**

*Salisbury, Rollin D., LL. D., Professor of Geographic Geology, University of Chicago, Chicago, Ill. (37). 1890. **B E**

Salisbury, Samuel Henry, Jr., Lehigh University, South Bethlehem, Pa. (57). **C**

Salmon, S. C., Kansas State Agricultural College. Manhattan, Kans. (66). **M**

Salter, Allen, M. D., Lena, Ill. (58). **K**

*Sammis, John Langley, Ph. D., Associate Professor of Dairy Husbandry. College of Agriculture, University of Wisconsin, Madison, Wis. (58). 1911. **C M**

Sampson, Arthur William, 3026 St. Paul St., Baltimore, Md. (64). **G**

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Sandblad, Andrew G., M. D., 728 South Union Ave., McKeesport, Pa. (58). **K**

Sanders, George E., Entomological Branch, Department of Agriculture, Ottawa, Canada. (60). **F**

*Sanders, James G., Associate Professor of Economic Entomology, College of Agriculture, University of Wisconsin, Madison, Wis. (54). 1913. **F**

Sanders, William Brownell, 3133 Euclid Ave., Cleveland, Ohio. (63).

*Sanderson, Ezra Dwight, Director, West Virginia Agricultural Experiment Station, Morgantown, W. Va. (50). 1904. **F**

Sanderson, Miss Mary R., McDowell, Ariz. (58). **H**

Sandsten, Emil Peter, Ph. D., State Agricultural College, Fort Collins, Colo. (54). **F**

Sanes, Kay I., M. D., 519 Jenkins Building, Pittsburgh, Pa. (51). **K**

*Sanford, Edmund Clark, Sc. D., Ph. D., President, Clark University, Worcester, Mass. (49). 1902. **H K L**

*Sanford, Fernando, Professor of Physics, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. **B**

Sanford, Samuel, U. S. Bureau of Mines, Washington, D. C. (58). **E**

Sang, Alfred, 96 Boulevard de Versailles, St. Cloud, S. et O., France. (58). **C D**

Sanger, Frank Dyer, M. D., 525 North Charles St., Baltimore, Md. (57). **H K**

Santee, Leon B., M. D., R. F. D., Limaville, Ohio. (60). **K**

*Sardeson, Frederick William, Ph. D., Assistant Professor of Geology, University of Minnesota, Minneapolis, Minn. (50). 1906. **E**

Sargent, Ara Nathaniel, M. D., 116 Federal St., Salem, Mass. (51). **K**

*Sargent, Dudley Allen, M. D., Sc. D., Director, Hemenway Gymnasium, Harvard University, Cambridge, Mass. (47). 1899. **H I K L**

*Sargent, Frederick Le Roy, 27 Everett St., Cambridge, Mass. (54). 1911. **G L**

Sargent, Henry Bradford, M. E., 247 Church St., New Haven, Conn. (60). **D**

Sargent, Herbert E., Wolfeboro, N. H. (63). **G L**

*Sargent, Homer Earle, Detroit, Minnesota. (58). 1913. **H**

Sargent, Porter Edward, 50 Congress St., Boston, Mass. (65). **G L**

Sarle, Clifton J., Department of Geology, St. Lawrence University, Canton, N. Y. (55). **E**

*Sasscer, E. Ralph, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (58). 1914. **F**

Satterlee, Frederick Le Roy, M. D., 6 West 56th St., New York, N. Y. (50). **C D**

Satterthwait, Alfred F., Experiment Station Building, La Fayette, Ind. (57). **F**

*Saunders, Arthur Percy, Ph. D., Dean and Professor of Chemistry, Hamilton College, Clinton, N. Y. (48). 1900. **C**

Saunders, Bertram H., Hamilton Club, Paterson, N. J. (63). **H**

*Saunders, Charles Edward, Ph. D., Central Experimental Farms, Ottawa, Canada. (41). 1895. **G**

Saunders, Charles Winston, Professor of Physics and Chemistry, State Normal School, Jacksonville, Ala. (58). **A B C G**

Saunders, Edward W., M. D., 1541 South Grand Ave., St. Louis, Mo. (51). **C K**

*Saunders, Frederick Albert, Ph. D., Professor of Physics, Vassar College, Poughkeepsie, N. Y. (48). 1906. **B**

Saunders, William E., E. M., Torresdale, Philadelphia, Pa. (58). **D**

*Saurel, Paul Louis, Sc. D., Ph. D., Associate Professor of Mathematics, College of the City of New York, New York, N. Y. (58). 1909. **A**

Savage, Elmer Seth, Ph. D., Assistant Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (63). **F M**

Savage, George Hubbard, care A. A. Wire Co., Inc., 48 Nesbitt St., Newark, N. J. (58). **B C D**

*Savage, Thomas Edmund, Ph. D., Assistant Professor of Stratigraphic Geology, University of Illinois, Urbana, Ill. (52). 1908. **E**

Savery, William, University of Washington, Seattle, Wash. (65).

*Saville, Marshall Howard, Professor of American Archæology, Columbia University, New York, N. Y. (39). 1892. H

Sawtelle, William Otis, Haverford College, Haverford, Pa. (57). A B

Sawyer, Arthur Rodney, E. E., Professor of Physics and Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. (58). BD

Sawyer, John P., M. D., 536 Rose Building, Cleveland, Ohio. (60). K

Sawyer, M. Louise, 839 Church St., Beloit, Wis. (60). A D

Saxer, A. H., Logan, Utah. (66).

Saxton, Dr. Lynn Mateer, College of the City of New York, New York, N. Y. (58). A L

*Sayles, Robert Wilcox, 263 Hammond St., Chestnut Hill, Mass. (55). 1911. E

*Sayre, Herbert Armistead, Ph. D., Professor of Mathematics, University of Alabama, University, Ala. (54). 1906. A

Scace, Lee Arbor, M. D., Employees Hospital Association, Centralia, Wash. (64). K

Scaife, Marvin F., E. M., 6407 5th Ave., Pittsburgh, Pa. (60). D

Scaife, William Lucien, E. M., 313 Sixth Ave., Pittsburgh, Pa. (51). B D

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Schaak, Milton Franklin, Ph. D., 108 Penn St., Brooklyn, N. Y. (58). B C

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*Schaeffer, Jacob Parsons, M. D., Ph. D., 509 South 46th St., Philadelphia, Pa. (60). 1913. K

SCHAEFFER, MRS. MARY TOWNSEND SHARPLESS, 1309 Arch St., Philadelphia, Pa. (38). E F

*Schaffner, John Henry, Professor of Botany, Ohio State University, Columbus, Ohio. (48). 1899. G

*Schaller, Waldemar Theodore, Ph. D., U. S. Geological Survey, Washington, D. C. (53). 1910. C E

Schaller, Walter F., M. D., 610 City of Paris Building, San Francisco, Cal. (66). K

Schapper, Ferdinand C., 617 Arlington Place, Chicago, Ill. (60). C

Scharar, Christian H., 2073 North Main Ave., Scranton, Pa. (33). A D E H

*Schaub, Ira O., West Raleigh, N. C. (58). 1911. C E

Schenck, W. Edwards, M. D., 19 West 7th St., Cincinnati, Ohio. (60). K

Scherer, Norman W., Assistant Professor of Forestry, Ohio State University, Columbus, Ohio. (66). M

Scherf, Charles Henry, 568 Cherry St., Elizabeth, N. J. (53). E F G

SCHERMERHORN, FREDERICK AUGUSTUS, E. M., 101 University Place, New York, N. Y. (36). D

*Schiedt, Richard Conrad, Sc. D., Ph. D., Professor of Biology, Franklin and Marshall College, Lancaster, Pa. (50). 1913. F

Schieffelin, William Jay, Ph. D., 5 East 66th St., New York, N. Y. (62). C
Schiff, David C., D. D. S., 1205 Schiller Building, Chicago, Ill. (58). K
Schildhauer, Edward, E. E., care Engineer's Club, 32 West 40th St., New York, N. Y. (60). D
*Schimpf, Henry William, M. D., 443 West 34th St., New York, N. Y. (58). 1911. C
Schively, Adeline F., Ph. D., 318 Winona Ave., Germantown, Pa. (65). F G
Schlachter, Carl H., M. E., 266 Harrison St., Passaic, N. J. (60). D
Schlehner, Harry Wilt, Haddonfield, N. J. (64).
*Schlesinger, Frank, Ph. D., Director, Allegheny Observatory, Allegheny, Pa. (51). 1902. A
*Schlesinger, Herman I., Ph. D., Associate Professor of Chemistry, University of Chicago, Chicago, Ill. (58). 1910. C
Schlitz, Francis A., M. D., 28 Jefferson St., Brooklyn, N. Y. (60). K
Schloss, Mrs. Florence L., 1809 California St., San Francisco, Cal. (65).
*Schlotterbeck, Julius Otto, Ph. D., Professor of Pharmacognosy and Botany, University of Michigan, Ann Arbor, Mich. (46). 1899. C G
*Schlundt, Herman, Ph. D., Professor of Chemistry, University of Missouri, Columbia, Mo. (60). 1910. C
Schlutz, Frederic William, M. D., 820 Donaldson Building, Minneapolis, Minn. (62). K
*Schmeckebier, Laurence Frederick, Ph. D., 1444 Belmont St., Washington, D. C. (50). 1902. E I
Schmid, H. Ernest, M. D., White Plains, N. Y. (25). K
Schmidt, Albert H., 228 South Fairview Ave., Park Ridge, Ill. (58). C G
Schmidt, Hubert, D. V. M., College Station, Texas. (65). F K M
Schmidt, Julian G., President, Northfield National Bank, Northfield, Minn. (65).
Schmidt, William Anton, Professor of Education, University of Oklahoma, Norman, Okla. (65). L
Schmitt, Waldo, U. S. National Museum, Washington, D. C. (65). F
*Schmitter, Ferdinand, M. D., Captain, Medical Corps, U. S. A., Department Hospital, Manila, P. I. (58). 1911. K
Schmitz, Nickolas, Professor of Agronomy, Maryland Agricultural College, College Park, Md. (62). G M
*Schmucker, Samuel Christian, Ph. D., Professor of Biology, State Normal School, West Chester, Pa. (53). 1906. F G
*Schneider, Albert, M. D., Ph. D., College of Pharmacy, Parnassus Ave., San Francisco, Cal. (54). 1906. C
*Schneider, Edward Christian, Ph. D., Head Professor of Biology, Colorado College, Colorado Springs, Colo. (55). 1911. G K
Schneider, Franz, Jr., Russell Sage Foundation, New York, N. Y. (63). G H
Schneider, Hyrum, 54 South 13th East St., Salt Lake City, Utah. (63). E

Schneider, Joseph, M. D., Pabst Theater Building, Milwaukee, Wis. (58). **K**

Schniewind, Heinrich, Jr., 18 West 18th St., New York, N. Y. (57).

Schobinger, John J., 920 East 44th St., Chicago, Ill. (34). **B L**

*Schoch, Eugene Paul, Ph. D., Professor of Physical Chemistry, University of Texas, Austin, Texas. (58). 1911. **B C**

Schock, Rev. David H., Pitman, N. J. (66).

Schoede, August H., Concordia, Mo. (58). **A B C**

Schoellkopf, Jacob F., 499 Delaware Ave., Buffalo, N. Y. (58). **C**

Schoemaker, Daniel M., M. D., Professor of Anatomy, St. Louis University, St. Louis, Mo. (66). **K**

Schöney, Theodosia Fowler, M. D., 500 Sheepshead Bay Road, Coney Island, N. Y. (65). **K**

Schoonhoven, John James, 773 Eastern Parkway, Brooklyn, N. Y. (52). **F H**

Schoppe, Prof. William F., Montana Agricultural Experiment Station, Bozeman, Mont. (64). **F**

*Schottenfels, Ida May, 447 East 49th Place, Chicago, Ill. (58). 1908. **A**

*Schrader, Frank Charles, U. S. Geological Survey, Washington, D. C. (62). 1914. **E**

Schrieber, Rudolph Ernst, 1500 Farwell Ave., Chicago, Ill. (64). **I**

*Schreiner, Oswald, Ph. D., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (58). 1910. **C**

Schreiter, Henry, 50 Broad St., New York, N. Y. (65).

*Schroeder, Ernest Charles, M. D. V., Bureau of Animal Industry Experiment Station, Bethesda, Md. (62). 1911. **K**

SCHUBRING, MRS. E. J. B., 415 North Park St., Madison, Wis. (62).

*Schuchert, Charles, Professor of Paleontology, Yale University, New Haven, Conn. (52). 1905. **E**

Schuh, Richard Edwin, Ph. D., Howard University, Washington, D. C. (54). **F G**

Schulte, Edward Delavan Nelson,, Professor of Electrical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. (60). **B**

*Schulte, Herman von Wechlinger, M. D., Assistant Professor of Anatomy, Columbia University, New York, N. Y. (60). 1911. **K**

*Schultz, Alfred Reginald, Ph. D., U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

Schultz, Carl H., 430–444 First Ave., New York, N. Y. (29).

*Schultz, Louis G., Oficina Meteorologica Argentina, Viamonte 640, Buenos Ayres, Argentina, S. A. (52). 1907. **B**

Schulz, William Frederick, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (60). **B**

Schulze, August Frederick, Storrs Agricultural Experiment Station, Storrs, Conn. (65). **G**

Schumacher, Irwin C., R. F. D. 2, Yuba City, Cal. (66).

*Schurman, Jacob Gould, Sc. D., Ph. D., LL. D., President, Cornell University, Ithaca, N. Y. (49). 1901. I

Schuster, Bruno L., M. D., Harvard Medical School, Boston, Mass. (60). K

Schuster, Michael P., M. D., care Providence Hospital, El Paso, Texas. (60). K

*Schuyler, Sidney B., P. O. Box 224, Webster Groves, Mo. (58). 1913. H

Schwartz, Frederick W., 439 Hamilton St., Albany, N. Y. (57). C

*Schwarz, Eugene A., U. S. National Museum, Washington, D. C. (29). 1895. F

Schwarz, George Frederick, 1470 Beacon St., Brookline, Mass. (64). M

*Schwatt, Isaac Joachim, Ph. D., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. (51). 1902. A

*Scofield, Carl Schurz, U. S. Department of Agriculture, Washington, D. C. (52). 1911. G

*Scott, Arthur William, Professor of Science, St. David's College, Lampeter, Great Britain. (46). 1915. A B

Scott, Charles Carrington, Professor of Chemistry, Austin College, Sherman, Texas. (63). C

*Scott, Charles Felton, Sc. D., Professor of Electrical Engineering, Yale University, New Haven, Conn. (48). 1900. B

Scott, Charles Payson Gurley, Ph. D., 1 Madison Ave., New York, N. Y. (60). E H I L

*Scott, Charlotte Angas, Sc. D., Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa. (60). 1910. A

*Scott, Ernest Lyman, Department of Physiology, Columbia University, New York, N. Y. (63). 1915. H

*Scott, Eugene W., Vienna, Va. (63). 1914. G

Scott, Frank J., Jr., care Jones Harrison's Farm, Minneapolis, Minn. (58). C D

*Scott, Frederick Hughes, Sc. D., Ph. D., Assistant Professor of Physiology, University of Minnesota, Minneapolis, Minn. (61). 1911. K

*Scott, George Gilmore, Ph. D., Department of Physiology and Zoology, College of the City of New York, New York, N. Y. (60). 1913. F K

*Scott, Irving Day, Ann Arbor, Mich. (58). 1911. E

‖Scott, John Walter, 36 John St., New York, N. Y. (57).

*Scott, John William, Ph. D., Professor of Zoology, University of Wyoming, Laramie, Wyo. (58). 1911. F

*Scott, Walter Dill, Ph. D., Professor of Psychology, Northwestern University, Evanston, Ill. (58). 1911. H

Scott, Will, 731 Atwater Ave., Bloomington, Ind. (58). F

*Scott, William Moore, care Thomsen Chemical Co., Baltimore, Md. (50). 1906. F G

Scovel, Edward C., Lakeview, S. D. (52). I L

Scribner, Eugene D., 124 Kingsboro Ave., Gloversville, N. Y. (65).

Scribner, F. Charles, care Colt's Patent Firearms Co., Hartford, Conn. (61). **D**

Scripps, E. B., La Jolla, Cal. (66).

Scripture, Arthur M., New Hartford, N. Y. (51).

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Scudder, Heyward, 107 East 34th St., New York, N. Y. (63). **C K**

Scull, Harry, 1123 Royal Insurance Building, Chicago, Ill. (58). **I**

Scullen, Herman A., Iowa State College, Ames, Iowa. (64). **F**

Scurlock, Herbert Clay, 428 College St., Washington, D. C. (58). **B C K**

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*Seal, Alfred Newlin, Ph. D., Professor of Chemistry and Physics, Girard College, Philadelphia, Pa. (50). 1909. **B C L**

*Seaman, Arthur Edmund, Professor of Geology and Mineralogy, Michigan College of Mines, Houghton, Mich. (53). 1906. **E**

Seaman, Emily Cromwell, Teachers College, Columbia University, New York, N. Y. (58). **C**

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*Seares, Frederick Hanley, Superintendent, Computing Division, Mt. Wilson Solar Observatory, Pasadena, Cal. (58). 1911. **A**

Searle, Dr. A. C., Owatonna, Minn. (65).

*Searle, Rev. George M., Ph. D., 660 California St., San Francisco, Cal. (39). 1891. **A**

*Searle, Harriet Richardson, Ph. D., 1810 Wyoming Ave., Washington, D. C. (49). 1903. **F**

Sears, Frederick Edmund, Westinghouse Laboratory, St. Paul's School, Concord, N. H. (47). **C E**

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*Seashore, Carl Emil, Ph. D., Dean, Graduate College, State University of Iowa, Iowa City, Iowa. (48). 1902. **I L**

Seawell, Benjamin Lee, Teacher of Biology, State Normal School, Warrensburg, Mo. (50). **F**

*Sedgwick, William Thompson, Sc. D., Ph. D., Professor of Biology, Massachusetts Institute of Technology, Boston, Mass. (47). 1898. **K L**

See, James W., M. E., Rentschler Building, Hamilton, Ohio. (51). **D**

*See, Thomas Jefferson Jackson, Ph. D., Professor of Mathematics, U. S. N., Naval Observatory, Mare Island, Cal. (48). 1901. **A**

Seeker, Albert F., 160 Midwood St., Brooklyn, N. Y. (60). **C**

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Seely, Leslie B., 5918 Pulaski Ave., Philadelphia, Pa. (65).

*Segerblom, Wilhelm, Professor of Chemistry, Phillips Exeter Academy, Exeter, N. H. (53). 1906. **C L**

Seitz, Charles E., 100 William St., New York, N. Y. (57).

*Selby, Augustine Dawson, Professor of Botany, Ohio Agricultural Experiment Station, Wooster, Ohio. (44). 1900. **G**

Selden, Andrew Kenneth, Jr., E. E., care Crocker-Wheeler Co., Ampere, N. J. (60). **D**

Seldner, Rudolph, 383 St. Johns Place, Brooklyn, N. Y. (60). **C**

Seligman, Isaac Newton, 1 William St., New York, N. Y. (49).

*Sellards, Elias Howard, Ph. D., Florida State Geological Survey, Tallahassee, Fla. (54). 1906. **E**

*Sellers, James Freeman, Professor of Chemistry, Mercer University, Macon, Ga. (50). 1906. **C**

Sellew, Paul Kibbe, M. D., 106 Sewall Ave., Brookline, Mass. (65). **B K**

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Selvidge, Robert W., George Peabody College for Teachers, Nashville, Tenn. (64). **L**

Selvig, C. G., Supt., Northwest Experiment Station, Crookston, Minn. (66). **M**

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*Serviss, Garrett Putnam, Closter, N. J. (52). 1906. **A B E**

*Sessinghaus, Gustavus, E. M., 728 Foster Building, Denver, Colo. (50). 1915. **E**

*Setchell, William Albert, Ph. D., Professor of Botany, University of California, Berkeley, Cal. (63). 1915. **G**

Setz, C. F., Herculaneum, Mo. (60). **C**

Sever, George Francis, E. E., 13 Park Row, New York, N. Y. (49). **B D**

*Severin, Harry Charles, Professor of Entomology, South Dakota State College of A. and M. Arts, Brookings, S. D. (61). 1914. **F**

Severin, Louis, M. D., Bluffton, Indiana. (63). **K**

Severinghaus, Willard L., Department of Physics, Columbia University, New York, N. Y. (66). **B**

Severson, Burns Oscar, Assistant Professor of Animal Husbandry, Pennsylvania State College, State College, Pa. (66). **F M**

Sevin, Gertrude K., Agnes Scott College, Decatur, Ga. (63). **F**

Sewell, John Stephen, C. E., Alabama Marble Co., Gantt's Quarry, Ala. (58). **D**

*Seyfert, Stanley Sylvester, E. E., Assistant Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. (60). 1915. **D**

*Seymour, Paul Henry, Urbana University Schools, Urbana, Ohio. (44). 1896. **C**

Seymour, Raymond Jesse, M. D., Assistant Professor of Physiology, Ohio State University, Columbus, Ohio. (60). **K**

*Shafer, George Daniel, Ph. D., Michigan Agricultural College, East Lansing, Mich. (58). 1915. **F**

*Shafer, John A., Custodian of the Museums, New York Botanic Garden, Bronx Park, New York, N. Y. (51). 1911. G

Shaffer, Newton Melman, M. D., Surgeon in Chief, New York State Hospital for Crippled and Deformed Children, 28 East 38th St., New York, N. Y. (60). K

*Shaffer, Philip Anderson, Ph. D., Professor of Biological Chemistry, Washington University Medical School, St. Louis, Mo. (58). 1911. K

*Shambaugh, George Elmer, M. D., 5625 University Ave., Hyde Park Station, Chicago, Ill. (58). 1911. K

Shannon, James I., S. J., Dean, School of Science and Assistant Professor of Physics, St. Louis University, St. Louis, Mo. (63). B

*Shantz, Homer Le Roy, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1904. G

*Share, William Waldemar, Ph. D., Professor of Chemistry, Adelphi College, Brooklyn, N. Y. (57). 1910. A B C D E L

Sharp, Charles Cutler, C. E., Nelsonville, Ohio. (50). D E

*Sharp, Clayton Halsey, Ph. D., 118 Fisher Ave., White Plains, N. Y. (45). 1897. B D

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Sharp, James G., M. D., 710 Butler Building, San Francisco, Cal. (66). K

*Sharp, Lester W., New York State College of Agriculture, Ithaca, N. Y. (62). 1915. G M

*Sharpe, Richard Worthy, 99 Woodruff Ave., Brooklyn, N. Y. (62). 1915. F

*Sharples, Philip Price, 90 Porter St., Montclair, N. J. (47). 1911. C I

*Sharples, Stephen Paschall, E. M., 26 Broad St., Boston, Mass. (29). 1884. C E G

*Sharwood, William John, Ph. D., care Homestake Mining Co., Lead, S. D. (58). 1912. C D E

*Shattuck, Charles Houston, Ph. D., Professor of Forestry, University of Idaho, Moscow, Idaho. (58). 1911. G M

*Shattuck, Frederick Cheever, M. D., Sc. D., LL. D., Professor of Clinical Medicine, Harvard Medical School, Boston, Mass. (50). 1901. F K

*Shattuck, George Brune, M. D., 183 Beacon St., Boston, Mass. (54). 1911. K

Shattuck, Harold B., Associate Professor of R. R. Engineering, Pennsylvania State College, State College, Pa. (58). D

Shatzer, Charles Gallatin, Professor of Geology and Biology, Wittenberg College, Springfield, Ohio. (63). E F

Shaw, Charles Frederick, Professor of Soil Technology, College of Agriculture, Berkeley, Cal. (58). M

*Shaw, Eugene Wesley, U. S. Geological Survey, Washington, D. C. (60). 1911. E

Shaw, Frederick William, M. D., Tiffin, Ohio. (65). **F K**

*Shaw, Harry B., 1054 East 14th St., Brooklyn, N. Y. (61). 1913. **G**

Shaw, Henry Clay, C. E., 63 Thorn St., Sewickley, Pa. (51). **D**

*Shaw, James Byrnie, Sc. D., Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. (58). 1908. **A**

Shaw, Mrs. John C., Mount Pleasant, Finderne, N. J. (57).

*Shaw, Reuben Taylor, 245 South 51st St., Philadelphia, Pa. (60). 1911. **C**

*Shaw, Walter Robert, Ph. D., Bureau of Science, Manila, P. I. (47). 1902. **F G**

Shaw, William Thomas, Professor of Zoology and Curator of Museum, State College of Washington. Pullman, Wash. (62). **F**

Shaw, Wilson A., Cashier, Merchants and Manufacturers National Bank, Pittsburgh, Pa. (50). **I**

*Shea, Daniel William, Ph. D., Professor of Physics, Catholic University of America, Washington, D. C. (54). 1906. **B**

SHEAFER, ARTHUR WHITCOMB, E. M., Pottsville, Pa. (28).

*Shear, Cornelius Lott, Ph. D., U. S. Department of Agriculture, Washington, D. C. (49). 1901. **G**

*Shearer, John Sanford, Ph. D., Professor of Physics, Cornell University, Ithaca, N. Y. (52). 1906. **B**

*Shedd, John Cutler, Ph. D., Professor of Physics, Olivet College, Olivet, Mich. (50). 1906. **A B**

*Shedd, Solon, Ph. D., Professor of Geology, State College of Washington, Pullman, Wash. (51). 1906. **E**

Shedlock, Alfred, M. E., 45 Broadway, New York, N. Y. (57). **D**

Sheffield, George St. John, Twin Elms Farm, Attleboro, Mass. (50). **I**

Sheib, Samuel H., M. D., Vanderbilt University Medical School, Nashville, Tenn. (65). **K**

Sheldon, Mrs. Jennie M. Arms, Deerfield, Mass. (44). **E F**

*Sheldon, John Lewis, Ph. D., Professor of Botany and Bacteriology, West Virginia University, Morgantown, W. Va. (50). 1904. **G**

*Sheldon, Ralph Edward, Ph. D., Associate Professor of Anatomy, University of Pittsburgh, Pittsburgh, Pa. (56). 1911. **F K**

*Sheldon, Samuel, Sc. D., Ph. D., Professor of Physics and Electrical Engineering, Polytechnic Institute, Brooklyn, N. Y. (42). 1894. **B D L**

*Shelford, Victor Ernest, Ph. D., Assistant Professor of Zoology, University of Illinois, Urbana, Ill. (58). 1913. **F**

Shellenbarger, Rufus Clark, Constantine, Mich. (63). **B**

Shelly, Edwin T., M. D , Atchison, Kans. (60). **K**

*Shenehon, Francis C., Dean, College of Engineering, University of Minnesota, Minneapolis, Minn. (61). 1912. **D**

*Shepard, Edward Martin, Sc. D., Professor of Geology, Drury College, Springfield, Mo. (63). 1913. **E**

*Shepard, John Frederick, Ph. D., Assistant Professor of Psychology, University of Michigan, Ann Arbor, Mich. (54). 1911. **H K**

*Shepardson, George Defrees, Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. (60). 1911. **D**

SHEPHERD, MISS ELIZABETH, 253 West 128th St., New York, N. Y. (39).

Shepherd, Frank I., Yorba Linda, Cal. (48). **C E K**

Shepherd, W. T., Ph. D., Dean, Waynesburg College, Waynesburg, Pa. (63).

Sheppard, Elizabeth Padgett, Normal School, Trenton, N. J. (66). **F**

Sheppard, George Quinton, Senior Master, The Hill School, Pottstown, Pa. (60). **A**

*Shepperd, John Henry, Vice-Director, Department of Agriculture, North Dakota Agricultural College, Fargo, N. D. (54). 1911. **G M**

Sherburne, Andrew E., M. D., 46 Brent St., Dorchester Center, Mass. (60). **K**

Sherman, E. Amelia, M. D., R. F. D. 2, McGregor, Iowa. (58). **K**

Sherman, Harry Mitchell, M. D., 2125 Jackson St., San Francisco, Cal. (66). **K**

Sherman, Helen, 176 Mason St., Milwaukee, Wis. (64). **G**

*Sherman, Henry Clapp, Ph. D., Dept. of Analytical Chemistry, Columbia University, New York, N. Y. (51). 1906. **C L**

Sherman, Lewis, M. D., 448 Jackson St., Milwaukee, Wis. (50). **G K**

Sherwood, George Herbert, Curator, Department of Public Instruction, American Museum of Natural History, New York, N. Y. (56). **F**

*Sherzer, William Hittell, Ph. D., Professor of Natural Sciences, State Normal College, Ypsilanti, Mich. (58). 1908. **E H L**

Shideler, W. H., Oxford, Ohio. (64).

*Shidy, Leland Perry, U. S. Coast and Geodetic Survey, Washington, D. C. (52). 1911. **B G**

*Shiels, Albert, Board of Education, New York, N. Y. (65). 1915. **L**

*Shimek, Bohumil, C. E., Professor of Physiological Botany, State University of Iowa, Iowa City, Iowa. (52). 1904. **E G**

*Shimer, Hervey Woodburn, Ph. D., Associate Professor of Geology, Massachusetts Institute of Technology, Boston, Mass. (53). 1909. **E**

*Shimer, Porter William, E. M., Ph. D., Easton, Pa. (38). 1889. **C D**

*Shingler, George Pinckney, Jr., Professor of Chemistry, Emory College, Oxford, Ga. (58). 1915. **C**

*Shinn, Owen Louis, Ph. D., Professor of Applied Chemistry, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **C**

Shira, Austin F., Director, U. S. Biological Station, Fairport, Iowa. (63). **F**

Shiraishi, Naoji, C. E., 22 Igura Yochome, Azabu, Tokyo, Japan. (60). **D**

*Shiras, George, 3d, Stoneleigh Court, Washington, D. C. (63). 1914. **F**

Shoemaker, Frank H., Zoological Laboratory, University of Nebraska, Lincoln, Nebr. (62). **F**

Shoemaker, Henry Wharton, 21 West 53d St., New York, N. Y. (57). **E F**

Shoemaker, Louis Henry, C. E., 1422 Frick Building, Pittsburgh, Pa. (60). **D**

Shoemaker, S. M., Eccleston, Md. (60).

Shore, Albert Ferdinand, 557 West 22d St., New York, N. Y. (54). D

*Shorey, Marian Lydia, Ph. D., Professor of Biology, Milwaukee-Downer College, Milwaukee, Wis. (62). 1913. F

*Short, Robert Louis, Principal, West Technical High School, Cleveland, Ohio. (55). 1908. A

Shott, John A., Professor of Psychology and Education, Westminster College, New Wilmington, Pa. (53). B H L

Shoudy, William Allen, M. E., Stevens Institute of Technology, Hoboken, N. J. (60). D

Show, John Harry, P. O. Box 713, Alliance, Nebr. (63). C

Shrawder, Joseph, care Chestnut Blight Commission, Zoology Building, University of Pennsylvania, Philadelphia, Pa. (60). C

*Shreve, Forrest, Ph. D., Desert Botanical Laboratory of the Carnegie Institution, Tucson, Ariz. (57). 1909. G

Shuler, Prof. Ellis W., 60 Kirkland St., Cambridge, Mass. (60). E

*Shull, Aaron Franklin, Ph. D., Junior Professor of Zoology, University of Michigan, Ann Arbor, Mich. (58). 1913. F

*Shull, Charles Albert, Associate Professor of Plant Physiology and Genetics, University of Kansas, Lawrence, Kansas. (58). 1915. F G

*Shull, George Harrison, Ph. D., Professor of Botany and Genetics, Princeton University, Princeton, N. J. (53). 1905. G

Shumway, Royal Raiss, Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. (62). A

Shurtleff, Eugene, M. D., 517 Shawmut Ave., Boston, Mass. (52). K

*Shute, Daniel Kerfoot, M. D., 1719 De Sales St. N. W., Washington, D. C. (50). 1906. F I K

*Shutt, Frank Thomas, Dominion Experimental Farms, Ottawa, Canada. (47). 1898. C

Sickels, Ivin, M. D., Professor of Natural History, College of the City of New York, New York, N. Y. (50). F K

Sickenberger, Ernest F., M. D., Carlstadt, N. J. (60). K

Sidener, Charles Frederick, Professor of Chemistry, University of Minnesota, Minneapolis, Minn. (58). C

*Siebel, John Ewald, Ph. D., Director, Zymotechnic Institute, 960 Montana St., Chicago, Ill. (57). 1911. B C D K

Siedenburg, Prof. Frederic, S. J., Loyola University, Chicago, Ill. (53). I L

Sieplein, Otto Julius, Professor of Chemistry, Grove City College, Grove City, Pa. (64). C

*Sies, Raymond William, Professor of School Administration, University of Pittsburgh, Pittsburgh, Pa. (62). 1915. L

Sifton, Harold Boyd, Department of Botany, University of Toronto, Toronto, Canada. (66). G

*Sigerfoos, Charles Peter, Ph. D., Professor of Zoology, University of Minnesota, Minneapolis, Minn. (54). 1906. F

*Sigsbee, Charles Dwight, Rear Admiral, U. S. N., Retired, 539 West 112th St., New York, N. Y. (28). 1882. **E**

Silber, Frederick D., 5632 Washington Ave., Hyde Park Station, Chicago, Ill. (58). **D**

*Siler, Joseph Franklin, M. D., Captain, Medical Corps, U. S. A., Army Building, New York, N. Y. (65). 1915. **F K**

*Silvester, Charles Frederick, Curator, Zoological Museum, Princeton University, Princeton, N. J. (54). 1913. **F**

Silvestri, Hugo, Consul of Austria-Hungary, 108 South La Salle St., Chicago, Ill. (58). **I**

Simes, Mrs. William, 46 Chestnut St., Boston, Mass. (60).

*Simmons, George H., M. D., LL. D., Secretary, American Medical Association, 712 Gordon Terrace, Chicago, Ill. (58). 1914. **K**

Simms, Bennett Thomas, D. V. M., Professor of Veterinary Medicine, Oregon State Agricultural College, Corvallis, Oregon. (65). **K**

*Simon, Charles Edmund, M. D., 1734 Linden Ave., Baltimore, Md. (58). 1910. **K**

*Simon, William, M. D., Ph. D., Catonsville, Md. (29). 1895. **C**

Simonds, Ossian Cole, C. E., 1101 Buene Ave., Chicago, Ill. (58). **G**

Simons, Etoile B., Ph. D., 7539 Colfax Ave., Chicago, Ill. (57). **G**

Simons, James E., M. D., Bay City, Texas. (60). **K**

Simonson, William, 126 West 9th St., Cincinnati, Ohio. (57). **C**

Simpson, B. R., 476 Eastern Parkway, Brooklyn, N. Y. (64). **H**

Simpson, Frank M., Professor of Physics, Bucknell University, Lewisburg, Pa. (58). **B**

*Simpson, Howard Edwin, Assistant Professor of Geology, University of North Dakota, University, N. D. (62). 1914. **E**

Simpson, J. A., M. D., 638 20th St., San Francisco, Cal. (60). **K**

Simpson, Jesse Pickrell, M. D., Palmer, Ill. (51). **F H K**

Simpson, John Crayke, M. D., 1421 Massachusetts Ave., Washington, D. C. (51). **H I K L**

Simpson, John Nathan, M. D., Dean, School of Medicine, West Virginia University, Morgantown, W. Va. (65). **K**

Simpson, Paul D., C. E., Sullivan Harbor, Me. (60). **D**

*Simpson, Quintus Irvin, Palmer, Ill. (54). 1913. **F K**

*Simpson, Sutherland, M. D., Sc. D., Professor of Physiology, Cornell University, Ithaca, N. Y. (62). 1911. **K**

Sims, Clough William, Sherman, Texas. (58). **B C**

Sinclair, Alexander Grant, M. D., LL. D., 126 North Court Ave., Memphis, Tenn. (52). **K**

*Sinclair, Cephas Hempstone, U. S. Coast and Geodetic Survey, Washington, D. C. (52). 1908. **D**

Sinclair, John George, Department of Zoology, University of Chicago, Chicago, Ill. (65). **F**

*Sinclair, Mary Emily, Ph. D., Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio. (58). 1911. **A**

Singer, H. Douglas, M. D., Kankakee, Ill. (60). **K**

Singewald, Joseph T., Jr., Ph. D., Department of Geology, Johns Hopkins University, Baltimore, Md. (66). **E**

*Sinnott, Edmund Ware, Ph. D., Bridgewater, Mass. (60). 1915. **G**

Sisson, Edward O., Boise, Idaho. (66).

*Sisson, Septimus, Professor of Comparative Anatomy, Ohio State University, Columbus, Ohio. (58). 1913. **F H K**

Sizer, Frank L., Dos Cabezos, Arizona. (65).

Sjöström, Ivar L., C. E., Lawrence, Mass. (60). **D**

Skeel, Franklin Deuel, M. D., 361 Mott Ave., New York, N. Y. (65). **K**

*Skinner, Aaron Nichols, Professor of Mathematics, U. S. N., The Alabama, Washington, D. C. (40). 1893. **K**

*Skinner, Clarence Aurelius, Ph. D., Professor of Physics, University of Nebraska, Lincoln, Nebr. (48). 1903. **B**

*Skinner, Ernest Brown, Ph. D., Associate Professor of Mathematics, University of Wisconsin, Madison, Wis. (58). 1909. **A**

*Skinner, Henry, M. D., The Academy of Natural Sciences, Philadelphia, Pa. (47). 1902. **F G K L**

*Skinner, Prof. Joseph John, Kenwood, N. Y. (23). 1880. **A B**

Skinner, Stanbridge A., 432 West Olive Ave., Redlands, Cal. (58). **C E F K**

*Skinner, William W., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (60). 1911. **C**

Slack, Henry R., M. D., Superintendent, The La Grange Sanitarium, La Grange, Georgia. (60). **K**

Slade, Elisha, Somerset, Mass. (29). **F**

*Sladen, Frank Joseph, M. D., Johns Hopkins Hospital, Baltimore, Md. (63). 1915. **K**

*Slagle, Robert Lincoln, Ph. D., President, State College of A. and M. Arts, Brookings, S. D. (50). 1909. **C E**

Slater, Florence Wells, Washington Irving High School, Irving Place. New York, N. Y. (60). **F**

*Slaught, Herbert Ellsworth, Ph. D., Associate Professor of Mathematics, University of Chicago, Chicago, Ill. (58). 1908. **A**

Sleeman, Herbert R., E. M., Whim Creek, West Australia. (60). **D**

*Slemons, J. Morris, M. D., Professor of Obstetrics and Gynecology, University of California, Berkeley, Cal. (60). 1914. **K**

Slepian, Joseph, Ph. D., 134 College Ave., Ithaca, N. Y. (66). **A B**

*Slichter, Charles Sumner, Professor of Applied Mathematics, University of Wisconsin, Madison, Wis. (51). 1902. **A**

*Slipher, Vesto Melvin, Ph. D., Lowell Observatory, Flagstaff, Ariz. (52). 1908. **A B**

Sloan, Augustus Kellogg, Sloan Engineering Co., 240–246 Hall St., Brooklyn, N. Y. (65). **D**

Sloan, Benson Bennett, 41 East 65th St., New York, N. Y. (57). **D**

*Sloan, Earle, State Geologist, U. S. Geological Survey, Charleston, S. C. (62). 1913. **E**

Sloan, Robert T., M. D., 1125 Rialto Building, Kansas City, Mo. (60). **K**
Sloan, William Henry, P. O. Box 105, Palo Alto, Cal. (65). **C**
Slobin, Hermon Lester, Ph. D., Department of Mathematics, University of Minnesota, Minneapolis, Minn. (62). **A B**
*Slocom, Arthur Ware, 5549 Dorchester Ave., Chicago, Ill. (58). 1911. **E**
Slocum, Miss Anna D., Pond St., Jamaica Plain, Mass. (61).
*Slocum, Charles Elihu, M. D., Ph. D., 218 13th St., Toledo, Ohio. (34). 1913. **E H K**
*Slocum, Frederick, Ph. D., Professor of Astronomy, Wesleyan University, Middletown, Conn. (47). 1906. **A**
Slocum, George, M. D., University of Michigan, Ann Arbor, Mich. (65). **K**
Slocum, Miss Laura, Pond St., Jamaica Plain, Mass. (61).
*Slonaker, J. Rollin, Ph. D., 334 Kingsley Ave., Palo Alto, Cal. (49). 1913. **F**
*Slosson, Edwin Emery, Ph. D., Literary Editor, *The Independent*, 530 West 123d St., New York, N. Y. (50). 1901. **L**
Slye, Miss Maud, 5844 Drexel Ave., Hyde Park Station, Chicago, Ill. (62). **F**
*Smail, Lloyd Leroy, Ph. D., University of Washington, Seattle, Wash. (64). 1915. **A**
*Small, John Kunkel, Sc. D., Ph. D., New York Botanic Garden, New York, N. Y. (44). 1902. **G**
Smallwood, Miss Mabel Elizabeth, Lane Technical High School, Chicago, Ill. (52). **F G**
*Smallwood, William Martin, Ph. D., Professor of Comparative Anatomy, Syracuse University, Syracuse, N. Y. (50). 1903. **E F**
Smead, Annie Elizabeth, 624 Nessle St., Toledo, Ohio. (65). **C K**
Smeaton, William Gabb, 605 Oxford Road, Ann Arbor, Mich. (57). **C**
Smersh, Francis M., M. D., Owatonna, Minn. (60). **K**
Smillie, Thomas W., U. S. National Museum, Washington, D. C. (40). **F**
Smith, Albert L., 9432 Howard Court, Chicago, Ill. (60). **C**
*Smith, Albert William, Ph. D., Professor of Metallurgy, Case School of Applied Science, Cleveland, Ohio. (47). 1900. **C**
*Smith, Alexander, Ph. D., Professor of Chemistry, Columbia University, New York, N. Y. (40). 1892. **C L**
Smith, Alfred, Ring Place, Price Hill, Cincinnati, Ohio. (58). **C**
Smith, Alfred, 2515 Vine St., Berkeley, Cal. (65).
Smith, Alice Maude, M. D., Chicago State Hospital, Dunning, Chicago, Ill. (53). **H I K L**
*Smith, Allen John, M. D., Sc. D., LL. D., Professor of Pathology, University of Pennsylvania, Philadelphia, Pa. (47). 1905. **H K**
*Smith, Mrs. Annie Morrill, 78 Orange St., Brooklyn, N. Y. (49). 1911. **G**
Smith, Arthur Bessey, E. E., Automatic Electric Co., Chicago, Ill. (64). **D**
*Smith, Arthur George, Professor of Mathematics and Astronomy, State University of Iowa, Iowa City, Iowa. (50). 1909. **A**

*Smith, Arthur Whipple, Ph. D., Associate Professor of Mathematics, Colgate University, Hamilton, N. Y. (58). 1910. A

*Smith, Arthur Whitmore, Ph. D., Professor of Physics, University of Michigan, Ann Arbor, Mich. (44). 1906. B

*Smith, Bertram G., Assistant Professor of Zoology, State Normal College, Ypsilanti, Mich. (61). 1914. F

*Smith, Burnett, Ph. D., Skaneateles, N. Y. (54). 1911. E F

Smith, C. Arthur, 148 12th St., Salt Lake City, Utah. (66). B D

*Smith, Charles Campbell, 518 Hastings St., West, Vancouver, Canada. (62). 1915. A

Smith, Charles Dennison, M. D., Superintendent, Maine General Hospital, Portland, Me. (58). F G K

*Smith, Charles Henry, 5517 Cornell Ave., Chicago, Ill. (60). 1909. A

*Smith, Charles J., Professor of Mathematics, Western Reserve University, Cleveland, Ohio. (32). 1885. A B

*Smith, Charles Marquis, Associate Professor of Physics, Purdue University, La Fayette, Ind. (58). 1911. B

Smith, Charles Oliver, E. E., Morton, Washington. (65). D

*Smith, Clara Eliza, Ph. D., 90 Shafer Hall, Wellesley, Mass. (60). 1911. A

Smith, Claude A., M. D., Chamber of Commerce Building, Atlanta, Ga. (58). K

Smith, Clayton O., Agricultural Experiment Station, Whittier, Cal. (65). G M

Smith, Clayton Sidney, Ph. D., Congress and Honore Sts., Chicago, Ill. (65). F

Smith, Cora A., 947 West 8th St., Erie, Pa. (64).

Smith, D. Laurence, M. D., 204–205 Peyton Block, Spokane, Wash. (60). K

*Smith, David Eugene, Ph. D., LL. D., Professor of Mathematics, Teachers College, Columbia University, New York, N. Y. (58). 1909. A L

Smith, Delavan, Lake Forest, Ill. (60). I

Smith, Dudley, M. D., Hotel Oakland, Oakland, Cal. (60). K

Smith, Dwight T., P. O. Box 531, Virginia City, Nev. (65).

Smith, E. Eggleston, 7 Richmond Terrace, Whitehall, London, England. (63). E

*Smith, Edgar Fahs, Sc. D., Ph. D., LL. D., Provost, University of Pennsylvania, Philadelphia, Pa. (33). 1891. C E L

Smith, Edward Sanborn, M. D., 301 North Rawlins St., Macon, Mo. (58). K

Smith, Eli Victor, Ph. D., Assistant Professor of Zoology, University of Washington, Seattle, Wash. (63). F

*Smith, Elliott, Ph. D., Cincinnati Observatory, Cinncinati, Ohio. (58). 1913. A

*Smith, Erastus Gilbert, Ph. D., Director, Beloit Sanitary Laboratory, Beloit, Wis. (34). 1887. C

*Smith, Ernest Ellsworth, M. D., Ph. D., Suite 80, Chemists Building, New York, N. Y. (43). 1898. **C F K**

*Smith, Erwin Frink, Sc. D., U. S. Department of Agriculture, Washington, D. C. (34). 1890. **G**

*Smith, Eugene Allen, Ph. D., LL. D., State Geologist, University, Alabama. (20). 1877. **C E**

*Smith, Eugene Randolph, Headmaster, The Park School, Auchentoroly Terrace, Baltimore, Md. (58). 1911. **A**

*Smith, Frances Grace, Ph. D., Associate Professor of Botany, Smith College, Northampton, Mass. (57). 1911. **G**

*Smith, Francis Henry, LL. D., Quarters G, Navy Yard, Washington, D. C. (54). 1906. **A B**

*Smith, Frank, Professor of Systematic Zoology, University of Illinois, Urbana, Ill. (49). 1900. **F**

Smith, Franklin Orion, Department of Psychology, University of Utah, Salt Lake City, Utah. (58). **H L**

Smith, Franklin Wheaton, E. M., P. O. Box 937, Bisbee, Ariz. (57). **D E**

Smith, Fred G., U. S. Food Inspection Laboratory, St. Paul, Minn. (60). **C**

Smith, Fred W., President, State School of Forestry, Bottineau, N. D. (54). **F G K M**

Smith, Frederic J., care Pierce Phosphate Company, Pierce, Fla. (58). **C F G**

*Smith, George McPhail, Ph. D., Associate in Chemistry, University of Illinois, Urbana, Ill. (58). 1911. **C**

Smith, George Hathorn, Glen Olden, Pa. (63).

Smith, George Milton, M. D., Washington University Medical School, St. Louis, Mo. (64). **K**

*Smith, George Otis, Ph. D., Director, U. S. Geological Survey, Washington, D. C. (52). 1906. **E**

*Smith, Gilbert Morgan, University of Wisconsin, Madison, Wis. (64). 1915. **G**

Smith, Grant, Chicago Teachers College, Chicago, Ill. (58). **F G L**

Smith, H. Carlton, Harvard Medical School, Boston, Mass. (56). **C**

*Smith, Harlan Ingersoll, Geological Survey of Canada, Ottawa. Canada. (41). 1896. **H**

*Smith, Harold Babbitt, E. E., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. (43). 1898. **B D**

Smith, Harry Scott, California State Insectary, Sacramento, Cal. (65).

Smith, Harvey, M. D., Peyton Block, Spokane, Wash. (60). **K**

*Smith, Henry Lee, M. D., F. R. S. A., 2701 North Calvert St., Baltimore, Md. (60). 1915. **K**

Smith, Henry Monmouth, Ph. D., Nutrition Laboratory, Carnegie Institution, Fenway, Boston, Mass. (58). **C**

*Smith, Herbert Stearns Squier, C. E., Professor of Civil Engineering, Princeton University, Princeton, N. J. (29). 1915. **D**

Smith, Homer Erastus, M. D., Norwich, N. Y. (60). **K**

*Smith, Howard Dexter, Ph. D., 30 Hawthorne St., Lowell, Mass. (58). 1911. **C**

*Smith, Hugh McCormick, M. D., LL. D., U. S. Commissioner of Fisheries, Washington, D. C. (52). 1906. **F K**

*Smith, Huron Herbert, Field Museum of Natural History, Chicago, Ill. (56). 1911. **G**

Smith, Isabel Seymour, Assistant Professor of Biology, Illinois College, Jacksonville, Ill. (60). **F**

Smith, J. Darrell, 7211 Boyer St., Mt. Airy, Philadelphia, Pa. (63). **D**

*Smith, J. Hammond, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. (61). 1915. **A D**

Smith, James Alnutt, St. Paul's Church, Westfield, N. J. (60). **F**

Smith, James B., El Nido, Burlingame, Cal. (66).

*Smith, James Brookes, Professor of Mathematics, Hampden-Sidney College, Hampden-Sidney, Va. (61). 1915. **A**

Smith, James Hervey, 5441 West Ohio St., Austin Station, Chicago, Ill. (40). **E**

Smith, Jared Gage, Professor of Botany, College of Hawaii, Honolulu, Hawaii. (63). **G**

Smith, Jesse L., Superintendent of Schools, Highland Park, Ill. (58).

Smith, Jesse Merrick, E. E., M. E., 90 West St., New York, N. Y. (58). **D**

*Smith, John E., University of North Carolina, Chapel Hill, N. C. (65). 1915. **F E L**

*Smith, Joseph Russell, Ph. D., Professor of Industry, University of Pennsylvania, Philadelphia, Pa. (58). 1910. **E I**

Smith, Joseph T., M. D., The Cecil, Baltimore, Md. (60). **K**

Smith, L. E., Sisson, Cal. (65).

Smith, Lee H., M. D., President, Buffalo Society of Natural Science, 663 Main St., Buffalo, N. Y. (51). **H K**

Smith, Leonard Charles Lindsay, C. E., 59 Woolsey St., Long Island City, N. Y. (60). **D**

*Smith, Louie Henrie, Ph. D., Professor of Plant Breeding, College of Agriculture, Urbana, Ill. (58). 1911. **C G**

Smith, Lucy Wright, Department of Zoology, Mt. Holyoke College, South Hadley, Mass. (63). **F**

*Smith, Margaret Keiver, Ph. D., Irvington, N. Y. (60). 1911. **H**

Smith, Middleton, Bureau of Statistics, U. S. Department of Agriculture, Washington, D. C. (52). **F**

Smith, Milton W., 413 Failing Building, Portland, Ore. (60). **I**

Smith, Morgan, M. D., 512 State National Bank Building, Little Rock, Ark. (60). **K**

Smith, Murdoch C., M. D., Lee Hall, Lynn, Mass. (60). **K**

*Smith, Newland Farnsworth, Ph. D., Professor of Physics, Central University, Danville, Ky. (63). 1913. **B**

Smith, Oakley, D. N., 8 North State Street, Chicago, Ill. (58). **K**

*Smith, Oberlin, C. E., M. E., Lochwold, Bridgeton, N. J. (58). 1911. **D**

*Smith, Percey Franklyn, Ph. D., Professor of Mathematics, Sheffield Scientific School, New Haven, Conn. (58). 1909. A

Smith, Philip Edward, Ph. D., University of California, Berkeley, Cal. (64). K

*Smith, Philip Sidney, Ph. D., U. S. Geological Survey, Washington, D. C. (47). 1909. E

Smith, Preston, Department of Science, State Normal School, Fitchburg, Mass. (61). L

Smith, R. Manson, 4 East Biddle St., Baltimore, Md. (60).

*Smith, Ralph Eliot, Professor of Plant Pathology, College of Agriculture, Berkeley, Cal. (65). 1915. G

Smith, Ralph Ingram, Professor of Zoology and Entomology, University of Porto Rico, Mayaguez, P. R. (54). F

Smith, Raymond S., Department of Agronomy, Pennsylvania State College, State College, Pa. (66). M

Smith, Richard R., 64 5th Ave., New York, N. Y. (65). L

Smith, Roy Harman, M. E., 951 Park Ave., Kent, Ohio. (58). D

Smith, Samuel George, D. D., Ph. D., LL. D., Professor of Sociology, University of Minnesota, Minneapolis, Minn. (60). I

Smith, Sedgwick, Department of Geology, Harvard University, Cambridge, Mass. (61). E

*Smith, Theobald, M. D., Sc. D., LL. D., 397 South St., Jamaica Plain, Boston, Mass. (61). 1911. K

Smith, Theodore W., Naperville, Ill. (58).

Smith Thomas Alexander, Ph. D., 320 Maryland Ave., N. E., Washington, D. C. (50). A B

Smith, W. Hinckle, 201 Franklin Bank Building, Philadelphia, Pa. (54).

*SMITH, W. S. TANGIER, Ph. D., Lodi, Cal. (50). 1906. E

*Smith, Warren Rufus, Ph. D., Professor of Chemistry, Lewis Institute, Chicago, Ill. (52). 1906. C

*Smith, William Benjamin, Ph. D., LL. D., Professor of Philosophy, Tulane University, New Orleans, La. (50). 1901. H

Smith, William G., Bureau of Soils, U. S. Department of Agriculture, Washington, D. C. (62). G

Smith, William H., M. D., 377 Beacon St., Boston, Mass. (60). K

Smith, William H., Jr., 6500 Ellenwood Ave., St. Louis, Mo. (63). L

Smith, William Hemans, 114 South Arlington Ave., East Orange, N. J. (65).

Smith, William M., University of Oregon, Eugene, Oregon. (65).

Smith, William W., Assistant Professor of Animal Husbandry, Purdue University, West Lafayette, Ind. (66). M

Smith, Winford H., M. D., Superintendent, Johns Hopkins Hospital, Baltimore, Md. (65). K

*Smock, John Conover, Ph. D., Trenton, N. J. (23). 1879. E

Smock, Ledru Pierson, M. D., 3330 Chestnut St., Philadelphia, Pa. (54). K

Smoot, Edgar K., C. E., 5A Balderas No. 70, Mexico, D. F., Mexico. (61). D

Smyser, J. A., 123 No. 18th St., Harrisburg, Pa. (62).

*Smyth, Charles Henry, Ph. D., Professor of Geology, Princeton University, Princeton, N. J. (38). 1894. E

Smyth, Ellison A., Jr., LL. D., Professor of Biology, Virginia Polytechnic Institute, Blacksburg, Va. (57). F G

Smyth, Henry Field, M. D., 217 Walnut Ave., Wayne, Pa. (65). K

Smyth, William Henry, E. E., "Fernwald," Berkeley, Cal. (65). D

*Sneath, E. Hershey, Ph. D., LL. D., Professor of Philosophy, Yale University, New Haven, Conn. (51). 1902. H

*Snedden, David, State Commissioner of Education, 500 Ford Building, Boston, Mass. (61). 1910. L

*Snell, John Ferguson, Ph. D., Macdonald College, Quebec, Canada. (58). 1911. C

*Snelling, Walter Otheman, Ph. D., Union Bank Building, Pittsburgh, Pa. (58). 1911. C E

Sneve, Haldor, M. D., 142 Mississippi River Boulevard, St. Paul, Minn. (51). K

*Snider, Luther C., Assistant Director, Oklahoma Geological Survey, Norman, Okla. (62). 1914. E

Snook, Harry J., 311 North Chester Ave., Pasadena, Cal. (65).

*Snow, Benjamin Warren, Ph. D., Professor of Physics, University of Wisconsin, Madison, Wis. (35). 1889. B

Snow, Elbridge Gerry, President, Home Insurance Co., 56 Cedar St., New York, N. Y. (57). I

Snow, Frederick W., E. M., care Tanganyika Concessions, Ltd., P. O. Box 76, Elisabethville, Katanga, via Cape Town and Rhodesia, Congo Belge, Africa. (60). D

*Snow, Laetitia Morris, Ph. D., Department of Botany, Wellesley College, Wellesley, Mass. (57). 1911. G

Snow, Rachel Parker, 115 Russell Ave., Watertown, Mass. (61). A F

Snow, William F., 105 West 40th St., New York, N. Y. (66).

*Snyder, Charles D., Ph. D., Associate Professor of Physiology, Johns Hopkins University Medical School, Baltimore, Md. (60). 1911. K

Snyder, Fred. D., M. D., 10 Center St., Ashtabula, Ohio. (51). E F H K

*Snyder, Harry, Professor of Agricultural Chemistry, University of Minnesota, Minneapolis, Minn. (44). 1897. C M

Snyder, John Otterbein, Professor of Zoology, Leland Stanford Junior University, Stanford University, Cal. (65). F

*Snyder, Monroe Benjamin, Director, Philadelphia Observatory, Philadelphia, Pa. (24). 1882. A B

*Snyder, Zachariah Xenophon, Ph. D., President, State Teachers College, Greeley, Colo. (50). 1907. F

*Solley, Fred. Palmer, M. D., 114 East 60th St., New York, N. Y. (57). 1908. K

*Sollmann, Torald Hermann, M. D., Professor of Pharmacology and Materia Medica, Western Reserve Medical College, Cleveland, Ohio. (52). 1906. K

Solomon, Harry C., M. D., 74 Fenwood Road, Boston, Mass. (65). **K**

Somers, George Burbank, 2662 Vallejo St., San Francisco, Cal. (66).

Somes, Melvin Philip, Missouri State Fruit Experiment Station, Mountain Grove, Mo. (62). **F G**

*Sondern, Frederic E., M. D., 200 West 56th St., New York, N. Y. (57). 1911. **K**

*Soper, George Albert, Ph. D., 391 West End Ave., New York, N. Y. (46). 1907. **K**

Soule, Andrew McNairn, Sc. D., Ph. D., President, Georgia State College of Agriculture, Athens, Ga. (62). **G M**

*Soule, Caroline Gray, 187 Walnut St., Brookline, Mass. (63). 1915. **F**

*Southard, Elmer Ernest, M. D., 70 Francis Ave., Cambridge, Mass. (60). 1911. **K**

Souvielle, Mathieu, M. D., P. O. Box 355, Jacksonville, Fla. (36). **B E F K**

Souvielle, Mrs. Mathieu, P. O. Box 355, Jacksonville, Fla. (24). **A B F**

Sowers, William F. M., M. D., 1707 Massachusetts Ave., Washington, D. C. (62). **K**

Sowers, Zachariah T., M. D., 1707 Massachusetts Ave., Washington, D. C. (60). **K**

Spahr, Robert Hoover, State University of Kentucky, Lexington, Ky. (63). **B**

*Spalding, Frederick Putnam, C. E., Professor of Civil Engineering, University of Missouri, Columbia, Mo. (46). 1899. **D**

*Spandau, H. M., Professor of Applied Mechanics, Whitman College, Walla Walla, Washington. (63). 1915. **H**

Spangler, Adolph James, University Farm, St. Paul, Minn. (65). **F**

Spangler, Harry Allen, M. D., Carlisle, Pa. (51). **K**

Sparre, Dr. Fin, E. I. du Pont de Nemours Powder Co., Henry Clay, Del. (63). **C**

Spaulding, Frank B., 324 Decatur St., Brooklyn, N. Y. (58). **A**

Spaulding, M. Herrick, Assistant Professor of Zoology, Montana State College of A. and M. Arts, Bozeman, Mont. (64). **F**

*Spaulding, Perley, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (52). 1909. **G**

Spaulding, Thomas C., Forest Supervisor, Choteau, Mont. (66). **M**

*Speare, Alden T., 4 Hudson St., East Lynn, Mass. (61). 1915. **G**

Speer, C. H., M. E., care Algoma Steel Co., Ltd., Sault Ste Marie, Canada. (58). **D**

Spelman, James F., M. D., P. O. Box 634, Anaconda, Mont. (60). **K**

Spencer, Anna Garlin, Professor of Sociology and Ethics, Meadville Theological School, Meadville, Pa. (65). **L**

*Spencer, Arthur Coe, Ph. D., U. S. Geological Survey, Washington, D. C. (52). 1905. **E**

Spencer, Eugene Jaccard, E. E., 1003 La Salle Building, St. Louis, Mo. (58). **D**

*Spencer, Joseph William, Ph. D., LL. D., 2019 Hillyer Place, Washington, D. C. (28). 1882. **E**

Spencer, Mrs. Lorillard, Chastellux, Newport, R. I. (57).
Spencer, Mary Cass, Professor of Mathematics, Newcomb College, New Orleans, La. (65). **A**
Spencer, Robert Douglas, 3728 Walnut St., Philadelphia, Pa. (63). **F**
Spencer, S. R., 516 Speight St., Waco, Texas. (64).
*SPENZER, JOHN GEORGE, M. D., Ph. D., 716 Rose Building, Cleveland, Ohio. (37). 1895. **C K**
*Sperr, Frederick William, E. M., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich. (60). 1912. **D**
Sperry, Elmer Ambrose, E. E., 100 Marlborough Road, Prospect Park, South, Brooklyn, N. Y. (51). **D**
Spicer, C. E., 100 Sherman St., Joliet, Ill. (58). **B**
Spiker, William Clare, C. E., 1504 Hurt Building, Atlanta, Ga. (60). **D**
*Spillman, William Jasper, Sc. D., U. S. Department of Agriculture, Washington, D. C. (52). 1905. **F G**
*Spinney, Louis Bevier, E. E., Professor of Physics, Iowa State College, Ames, Iowa. (52). 1897. **B D**
*Spitzka, Edward Anthony, M. D., 66 East 73d St., New York, N. Y. (54). 1906. **F H K**
Spoehr, H. A., Desert Laboratory, Tucson, Ariz. (66).
Spohn. Adelaide A., 618 Kemper Place, Chicago, Ill.
Sponsler, O. L., Professor of Forestry, University of Michigan, Ann Arbor, Mich. (66). **M**
Spooner, Charles C., 201 East Prospect St., Marquette, Mich. (64).
Spooner, Charles Stockman, P. O. Box 411, Thomasville, Ga. (57). **F**
Spragg, Frank A., Michigan Agricultural Experiment Station, East Lansing, Mich. (64). **G M**
Sprague, Frances R., M. D., Pembroke Road, Bryn Mawr, Pa. (60). **K**
*Springer, Alfred, Ph. D., 312 East 2d St., Cincinnati, Ohio. (24). 1880. **C**
*SPRINGER, HON. FRANK, East Las Vegas, N. M. (57). 1914. **F**
*Springsteen, Harry William, Ph. D., Associate Professor of Physics, Western Reserve University, Cleveland, Ohio. (49). 1906. **A B**
Sprong, Severn D., E. E., 533 2d St., Brooklyn, N. Y. (60). **D**
Spunar, Valentine Max, M. E., E. E., 941 Hoyne Ave., Chicago, Ill. (60). **A**
Spurlock, Frank, Chattanooga, Tenn. (65).
Squibb, Charles F., Bernardsville, N. J. (43).
Squibb, Edward Hamilton, M. D., 148 Columbia Heights, Brooklyn, N. Y. (41). **F K**
*Squier, George Owen, Ph. D., Lieut.-Colonel Military Attache, U. S. A., American Embassy, London, England. (54). 1906. **B**
Squire, John A., P. O. Box 5, Palo Alto, Cal. (66).
Squire, Susan J., M. D., The Cypress Apartments, 2204 South Hoover St., Los Angeles, Cal. (63). **K**
Squires, J. H., Agricultural Division, E. I. du Pont de Nemours Powder Co., Wilmington, Del. (66). **M**
Staber, Maud J., 455 East 18th St., Brooklyn, N. Y. (63).

Stabler, Edward Lincoln, Ph. D., care U. S. Leather Company, 17 Battery Place, New York, N. Y. (60). **A**

Stabler, Laird J., 1122 West 30th St., Los Angeles, Cal. (60). **C**

Stack, Erwin Blakeney, E. E., Monroe, N. C. (63). **D**

Stackpole, Miss Caroline E., Teachers College, Columbia University, New York, N. Y. (53). **F G L**

*Stafford, Orin Fletcher, Professor of Chemistry, University of Oregon, Eugene, Ore. (58). 1911. **C**

Stager, Henry Walter, Ph. D., 265 Howard St., Fresno, Cal. (65). **A**

*Stahley, George Diehl, M. D., Gettysburg, Pa. (47). 1907. **F G**

*Stakman, Elvin C., University Farm, St. Paul, Minn. (65). 1915. **G**

Stalder, Walter, 1822 12th Ave., Oakland, Cal. (65).

Stallings, Robert Emmet, State Chemist, 130 State Capitol, Atlanta, Ga. (66). **C**

*Stamper, Alva Walker, Ph. D., Head, Department of Mathematics, State Normal School, Chico, Cal. (60). 1911. **A**

*Standley, Paul Carpenter, Assistant Curator, U. S. National Museum, Washington, D. C. (60). 1911. **G**

Stanley, L. L., M. D., San Quentin, Cal. (66). **K**

Stanley, William, E. E., Great Barrington, Mass. (50). **D**

Stantial, F. G., Everett, Mass. (61). **C**

STANTON, FRANK MCMILLAN, E. M., Shore Road, Whitestone, N. Y. (51). **D E**

Stanton, John Robert, E. M., 15 William St., New York, N. Y. (49). **D**

Stanton, Robert Brewster, C. E., E. M., 32 Nassau St., New York, N. Y. (51). **D**

*Stanton, Timothy William, Ph. D., U. S. National Museum, Washington, D. C. (50). 1902. **E**

Stanton, Wilbor D., C. E., Cohocton, N. Y. (60). **D**

*Starbuck, Edwin Diller, Ph. D., Professor of Philosophy, State University of Iowa, Iowa City, Iowa. (58). 1911. **H I L**

*Starch, Daniel, Ph. D., Assistant Professor of Psychology, University of Wisconsin, Madison, Wis. (62). 1914. **H L**

Stark, W., M. D., Auburn, Cal. (65). **K**

Stark, William E., Superintendent of Schools, 328 Union St., Hackensack, N. J. (58). **L**

Starr, David S., Hastings Seed Co., Trimble, Ga. (65). **G M**

*Starr, Frederick, M. D., Ph. D., LL. D., Professor of Anthropology, University of Chicago, Chicago, Ill. (36). 1892. **E H**

Starring, C. C., Bozeman, Mont. (66).

*Stauffer, Clinton R., Ph. D., Department of Geology, University of Minnesota, Minneapolis, Minn. (57). 1911. **E**

Stauffer, Rev. Thomas F., 910 Congress St., Emporia, Kansas. (51). **I**

Stearns, Edward F., 4451 Oakenwald Ave., Chicago, Ill. (58).

Stearns, Guy Beckley, M. D., 119 West 82d St., New York, N. Y. (54). **I K**

Stearns, Thomas B., E. M., 1720 California St., Denver, Colo. (50). **D E**

Stebbins, Miss Fannie A., 480 Union St., Springfield, Mass. (44). **F G**

*Stebbins, James H., Jr., Ph. D., 80 Madison Ave., New York, N. Y. (60). 1911. C

*Stebbins, Joel, Ph. D., Professor of Astronomy, University of Illinois, Urbana, Ill. (58). 1909. A

*Stebinger, Eugene, U. S. Geological Survey, Washington, D. C. (63). 1914. E

Steckbeck, David Walter, Department of Botany, University of Pennsylvania, Philadelphia, Pa. (63). G

Stedman, Chester Jewett, M. D., Fort Canby, Washington. (65). K

Stedman, John Moore, Office of Experiment Stations, Washington, D. C. (58). F M

Steel, Prof. Alvin Arthur, Route 1, Parma, Idaho. (58). D E

Steel, Donald, 718 Bryant St., Palo Alto, Cal. (65).

Steel, Matthew, 449 West 150th St., New York, N. Y. (58). K

Steele, Asa George, Ph. D., LL. D., Temple University, Philadelphia, Pa. (63).

Steele, Brenton L., Associate Professor of Physics, State College of Washington, Pullman, Wash. (64). B

Steele, John M., M. D., Owings Mills, Md. (60). K

Steenken, F. L., Standish Arms, Brooklyn, N. Y. (63).

*Steensland, Halbert Severin, M. D., Professor of Pathology and Bacteriology, Syracuse Medical School, Syracuse, N. Y. (58). 1911. F

STEERS, JAMES R., 1 West 70th St., New York, N. Y. (57).

Steffens, Mathew Joseph, 55–57 East 22d St., Chicago, Ill. (58).

*Steidtmann, Edward, Department of Geology and Mineralogy, University of Wisconsin, Madison, Wis. (61). 1914. E

*Steiger, George, Chemical Laboratory, U. S. Geological Survey, Washington, D. C. (40). 1901. B C E

Stein, John Bethune, M. D., 205 East 23d St., New York, N. Y. (57). K

Stein, Mrs. Julian S., 22 Talbot Road, Windsor Hills, Baltimore, Md. (63). F

Stein, Simon Gerberich, M. D., Muscatine, Iowa. (43). A K

Steiner, Bernard Christian, Ph. D., Enoch Pratt Free Library, Baltimore, Md. (58). I

Steiner, Walter R., M. D., 4 Trinity St., Hartford, Conn. (62). K

*Steinmetz, Charles Proteus, E. E., Ph. D., Professor of Electrical Engineering, Union University, Schenectady, N. Y. (40). 1895. B C D

Steinway, Fred T., care Steinway and Sons, Ditmars Ave., Steinway, Long Island City, N. Y. (56).

Steirnagle, William Milton, C. E., U. S. Coast and Geodetic Survey, Washington, D. C. (66). B D

*Stejneger, Leonhard, Head Curator, of Biology, U. S. National Museum, Washington, D. C. (40). 1892. E F

Stellwagen, Herbert P., 2048 East Fair Ave., St. Louis, Mo. (58). A

Stellwagen, Thomas C., M. D., Professor of Physiology, Philadelphia Dental College, 110 South 19th St., Philadelphia, Pa. (51). K

Stengel, Alfred, M. D., Professor of Medicine, University of Pennsylvania, Philadelphia, Pa. (65). K

Stenger, Edward Lewis, 2610 Derby St., Berkeley, Cal. (64). **E**

Stephan, John Franklin, D. D., 1016 New England Building, Cleveland, Ohio. (64). **B C K**

Stephens, Henry Matthew, Professor of Biology, Dickinson College, Carlisle, Pa. (50). **F G**

*Stephens, Roswell Powell, Ph. D., Adjunct Professor of Mathematics, University of Georgia, Athens, Ga. (57). 1909. **A**

Stephens, Thomas Calderwood, Professor of Biology, Morningside College, Sioux City, Iowa. (57). **F K**

*STEPHENS, W. HUDSON, Lowville, N. Y. (18). 1874. **E H**

*Stephenson, Edward Beattie, Ph. D., Department of Physics, University of North Dakota, University, N. D. (58). 1915. **B**

*Stephenson, Lloyd William, Ph. D., U. S. Geological Survey, Washington, D. C. (56). 1911. **E**

Sterki, Victor, M. D., New Philadelphia, Ohio. (62). **F K**

Stern, Philip Kossuth, E. E., M. E., 521 West 187th St., New York, N. Y. (50). **B D**

*Sternberg, Charles Hazelius, Gilmour St., Ottawa, Canada. (50). 1914. **E F**

Sternberger, Edwin, M. D., 43 East 60th St., New York, N. Y. (57). **K**

*Sterrett, Douglas Bouvard, U. S. Geological Survey, Washington, D. C. (61). 1914. **E**

Stetson, Francis Lynde, LL. D., 4 East 74th St., New York, N. Y. (57). **E G I**

*Stetson, George Rochford, 1441 Massachusetts Ave., N. W., Washington, D. C. (49). 1911. **H I**

*Stetson, Harlan True, Yerkes Observatory, Williams Bay, Wis. (60). 1913. **A B**

Stevens, Cyrus Lee, M. D., Secretary, Medical Society of the State of Pennsylvania, Athens, Pa. (51). **K**

*Stevens, Frank Lincoln, Ph. D., Professor of Plant Pathology, University of Illinois, Urbana, Ill. (44). 1899. **G**

Stevens, Frederick W., Department of Physics, Lake Forest University, Lake Forest, Ill. (50). **B**

*Stevens, George Thomas, M. D., Ph. D., 350 West 88th St., New York, N. Y. (28). 1911. **B G K**

*Stevens, Harold E., Department of Plant Pathology, Agricultural Experiment Station, Gainesville, Fla. (63). 1915. **G**

*Stevens, Herman Campbell, Ph. D., Associate Professor of Education, University of Chicago, Chicago, Ill. (58). 1911. **H L**

*Stevens, James Franklin, M. D., P. O. Box 546, Lincoln, Nebr. (50). 1913. **F H K**

*Stevens, James Stacy, Ph. D., LL. D., Professor of Physics and Dean, College of Arts and Sciences, University of Maine, Orono, Me. (48). 1900. **B**

*Stevens, Neil Everett, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (63). 1913. **G**

*Stevens, Walter LeConte, Ph. D., Professor of Physics, Washington and Lee University, Lexington, Va. (29). 1882. **B L**

Stevens, William Chase, Professor of Botany, University of Kansas, Lawrence, Kans. (63). **G**

Stevenson, Francis Leslie, E. E., 606 South Michigan Ave., Chicago, Ill. (47). **B D I**

*Stevenson, John James, Ph. D., LL. D., 215 West 101st St., New York, N. Y. (36). 1888. **E**

*Stevenson, William H., Professor of Soils, Iowa State College, Ames, Iowa. (55). 1911. **C**

*Stewart, Alban, Professor of Botany, University of Wisconsin, Madison, Wis. (60). 1911. **G**

*Stewart, Alonzo Hamilton, M. D., 252 North 12th St., Philadelphia, Pa. (54). 1911. **K**

*Stewart, Colin Campbell, Ph. D., Professor of Physiology, Dartmouth College, Hanover, N. H. (54). 1906. **K**

*Stewart, Douglas, Assistant to Director, Carnegie Museum, Pittsburgh, Pa. (50). 1915. **E**

Stewart, Francis Laird, Murrysville, Pa. (51). **G**

*Stewart, Fred. Carlton, Professor of Botany, New York Agricultural Experiment Station, Geneva, N. Y. (44). 1901. **G**

*Stewart, George Walter, Ph. D., Professor of Physics, State University of Iowa, Iowa City, Iowa. (52). 1906. **B**

Stewart, Hugh Angus, M. D., Assistant Professor of Pathology, Columbia University, New York, N. Y. (62). **K**

Stewart, James L., M. D., Boise, Idaho. (60). **K**

Stewart, John, Associate Professor of Chemistry, Agricultural Experiment Station, Logan, Utah. (63). **C**

Stewart, John Pogue, Ph. D., Professor of Experimental Pomology, Pennsylvania State College, State College, Pa. (63). **G**

*Stewart, Louis B., Professor of Surveying and Geodesy, University of Toronto, Toronto, Canada. (57). 1909. **A**

Stewart, Maude Gertrude, 212 3d Ave., Faribault, Minn. (64). **B**

*Stewart, Oscar Milton, Ph. D., Professor of Physics, University of Missouri, Columbia, Mo. (46). 1900. **B**

Stewart, Robert, Ph. D., Associate Professor, Soil Fertility, University of Illinois, Urbana, Ill. (61). **G**

*Stewart, Robert Meldrum, Dominion Observatory, Ottawa, Canada. (61). 1910. **A**

*Stewart, Vern Bonham, Ph. D., New York State College of Agriculture, Ithaca, N. Y. (63). 1915. **G**

Stewart, William Rhinelander, 31 Nassau St., New York, N. Y. (57).

STICHT, ROBERT C., E. M., General Manager, Mt. Lyell Mining and Ry. Co., Ltd., Queenstown, Tasmania, Australia. (60). **D**

*Stickney, Gardner P., 864 Summit Ave., North, Milwaukee, Wis. (44). 1901. **H I**

*Stickney, Malcolm Enos, Assistant Professor of Botany, Denison University, Granville, Ohio. (53). 1915. G

Stickney, William B. C., 37 No. Main St., Rutland, Vt. (65).

Stidham, Harrison, C. E., 3322 Newark St., Washington, D. C. (60). D

*Stieglitz, Julius, Sc. D., Ph. D., Director, Laboratories of Analytical Chemistry, University of Chicago, Chicago, Ill. (39). 1895. C

*Stifler, William Warren, Ph. D., Columbia University, New York, N. Y. (63). 1915. B

*Stiles, Ch. Wardell, Ph. D., M. D., Sc. D., LL. D., U. S. Marine Hospital, Wilmington, N. C. (40). 1892. F L

Stiles, George Whitfield, M. D., Ph. D., 518 Tabor Opera House, Denver, Colo. (58). K

*Stiles, Harold M., Iowa State College, Ames, Iowa. (58). 1915. B

Stiles, L. C., M. D., Austinburg, Ohio. (60). K

Still, George Anderson, M. D., care A. S. O. Hospital, Kirksville, Mo. (50). C K

*Stillhamer, Arthur Grant, Professor of Physics, Illinois Wesleyan University, Bloomington, Ill. (50). 1915. A B C D

*Stillman, John Maxson, Ph. D., Professor of Chemistry, Leland Stanford Junior University, Stanford University, California. (41). 1911. C

*Stillman, Stanley, M. D., 2336 Broadway, San Francisco, Cal. (65). 1915. K

*Stillman, William Olin, M. D., 287 State St., Albany, N. Y. (28). 1911. I K

Stillwell, Albert G., 36 Gold St., New York, N. Y. (57). C

*Stillwell, Lewis Buckley, E. E., Sc. D., 100 Broadway, New York, N. Y. (50). 1906. C D

Stilman, Charles C., M. D., Morganville, Kansas. (60). K

Stimpson, Edwin Fiske, Assistant Professor of Physics and Electrical Engineering, University of Kansas, Lawrence, Kan. (60). B D

*Stine, Wilbur Morris, Sc. D., Ph. D., 334 West Main St., Mechanicsburg, Pa. (37). 1900. B C D

Stiriz, Charles H., 2577 8th Ave., New York, N. Y. (63).

Stober, James Palm, Ph. D., Professor of Biology and Geology, Albright College, Myerstown, Pa. (65). E F

Stock, Chester, 492 7th St., San Francisco, Cal. (65).

Stock, G. M., 3610 Clifton Ave., Walbrook, Baltimore, Md. (62). C

*Stockard, Charles Rupert, Ph. D., Professor of Anatomy, Cornell Medical College, New York, N. Y. (52). 1909. F

*Stockberger, Warner W., Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (58). 1909. G

Stockbridge, Horace Edward, Ph. D., Editor, *Southern Ruralist*, Atlanta, Ga. (65). M

*Stocking, William Alonzo, Jr., Professor of Dairy Husbandry, New York State College of Agriculture, Ithaca, N. Y. (64). 1915. G

*Stockton, Charles G., M. D., 436 Franklin St., Buffalo, N. Y. (51). 1906. **K**

*Stockwell, John Nelson, Ph. D., 2302 Murray Hill Road, Cleveland, Ohio. (18). 1875. **A B C**

Stoddard, George Howland, M. E., 197 Beacon St., Boston, Mass. (51). **A B C D**

*Stoddart, Charles William, Ph. D., Assistant Professor of Soils, Pennsylvania State College, State College, Pa. (58). 1911. **C**

STOECKEL, CARL, Norfolk, Conn. (52). **A E**

Stoelting, C. William, M. D., 813 Main St., Oconto, Wis. (60). **K**

Stoffel, Paul X., E. M., Cia Minera de Penoles, S. A., 3a San Agustin, No. 80, Mexico, D. F., Mexico. (58). **D**

*Stokes, Henry Newlin, Ph. D., Bureau of Standards, Washington, D. C. (38). 1891. **C E**

Stokes, James Graham Phelps, M. D., Caritas Island, Stamford, Conn. (58). **I L**

Stokes, James Stephen, 1220 East Normal Ave., Kirksville, Mo. (58). **B E**

Stokes, John F. G., Curator of Polynesian Ethnology, Bishop Museum, Honolulu, Hawaii. (62). **H**

*Stokey, Alma Gracey, Ph. D., Associate Professor of Botany, Mt. Holyoke College, South Hadley, Mass. (63). 1915. **G**

*Stoltenberg, Miss Clara S., P. O. Box 25, Stanford University, Cal. (65). 1915.

Stolz, Rabbi Joseph, D. D., 4827 Langley Ave., Chicago, Ill. (58).

Stone, Charles Augustus, E. E., 147 Milk St., Boston, Mass. (60). **D**

*Stone, George Edward, Ph. D., Professor of Botany, Massachusetts Agricultural College, Amherst, Mass. (48). 1902. **G**

Stone, I. Frank, 100 William St., New York, N. Y. (57).

*Stone, Isabelle, Ph. D., 3403 Indiana Ave., Chicago, Ill. (50). 1906. **B**

*Stone, John Stone, E. E., 15 Gramercy Park, New York, N. Y. (54). 1906. **B**

Stone, Julius F., care The Seagrove Co., Columbus, Ohio. (48). **D**

Stone, Lincoln R., M. D., 131 Vernon St., Newton, Mass. (31). **H K**

Stone, Mabel Annie, Department of Botany, Wellesley College, Wellesley, Mass. (65). **G**

*Stone, Prof. Ormond, Manassas, Va. (24). 1876. **A L**

*Stone, Ralph Walter, U. S. Geological Survey, Washington, D. C. (57). 1911. **E**

*Stone, Roland Elisha, Ph. D., Ontario Agricultural College, Guelph, Ont., Canada. (58). 1911. **G**

*Stone, Witmer, Sc. D., Curator, Academy of Natural Sciences, Philadelphia, Pa. (63). 1913. **F**

Stoner, Dayton, State University of Iowa, Iowa City, Iowa. (64). **F**

*Summers, Henry Elijah, Professor of Zoology, Iowa State College, Ames, Iowa. (50). 1906. F

*Sumner, Francis Bertody, Ph. D., Scripps Institute for Biological Research, La Jolla, Cal. (51). 1906. F

Sumner, George S., Ph. D., Professor of Economics and Sociology, Pomona College, Claremont, Cal. (60). I

*Sumstine, David Ross, Sc. D., Principal, Turtle Creek School, Wilkinsburg, Pa. (58). 1911. G

Suppan, Leo, 2112 Oregon Ave., St. Louis, Mo. (60). C

*Surface, Frank Macy, Ph. D., Professor of Biology, Maine Agricultural Experiment Station, Orono, Me. (53). 1910. F

*Surface, Harvey Adam, Sc. D., Economic Zoologist of Pennsylvania, Harrisburg, Pa. (50). 1906. F

Sutherland, F. G., East Hall, University of California, Berkeley, Cal. (66).

Sutton, Frank, C. E., U. S. Geological Survey, Washington, D. C. (60). D E

Sutton, John Edward, M. D., Albion, N. Y. (60). K

*Suzzallo, Henry, Ph. D., Professor of the Philosophy of Education, Teachers College, Columbia University, New York, N. Y. (58). 1910. H L

Swafford, Charles C., 2000 Santa Clara Ave., Alameda, Cal. (65).

*Swain, George Fillmore, LL. D., Professor of Civil Engineering, Graduate School of Applied Science, Harvard University, Cambridge, Mass. (52). 1906. D

*Swain, Joseph, LL. D., President, Swarthmore College, Swarthmore, Pa. (54). 1910. A

*Swain, Robert Eckles, Ph. D., Professor of Physiological Chemistry, University of California, Berkeley, Cal. (60). 1911. C

Swan, Benjamin R., M. D., 222 Sansome St., San Francisco, Cal. (65). K

Swan, D. S., Box 338, R. F. D. 10, Los Angeles, Cal. (65).

*Swan, John Nesbit, Ph. D., Professor of Chemistry, Monmouth College, Monmouth, Ill. (58). 1911. C L

Swan, Stewart Duffield, Monmouth, Ill. (64).

Swanberg, Harold, 221 South Ashland Boulevard, Chicago, Ill. (65). K

*Swanton, John Reed, Ph. D.. Bureau of American Ethnology, Smithsonian Institution, Washington, D. C. (58). 1910. A

Swarth, Harry S., Museum of History, Science and Art, Exposition Park, Los Angeles, Cal. (65).

*Swartz, Charles Kephart, Ph. D., Professor of Geology, Johns Hopkins University, Baltimore, Md. (62). 1914. E

*Swartzel, Karl Dale, Professor of Mathematics, Ohio State University, Columbus, Ohio. (48). 1906. A D L

Sweet, Henry N., E. M., 63 Mt. Vernon St., Boston, Mass. (58). D

Sweetser, Albert Raddin, Professor of Biology, University of Oregon. Eugene, Ore. (62). F G

*Swenk, Myron H., Associate Professor of Entomology, Agricultural Experiment Station, Lincoln, Nebr. (62). 1913. F

Swenson, Carl G., M. D., 440 Fullerton Parkway, Chicago, Ill. (58). K

*Swensson, Emil, C. E., 5511 Hays St., Pittsburgh, Pa. (51). 1906. D

*Swett, Otis Dow, 1325 H St., N. W., Washington, D. C. (60). 1911. C

*Swezey, Otto H., H. S. P. Experiment Station, Honolulu, Hawaii. (64). 1915. F

Swezy, Miss Olive, 2531 Ridge Road, Berkeley, Cal. (65).

*Swift, Edgar James, Ph. D., Washington University, St. Louis, Mo. (60). 1911. H

*Swift, Fletcher Harper, Ph. D., Professor of Education, University of Minnesota, Minneapolis, Minn. (58). 1910. H L

Swift, Homer F., M. D., Associate Professor of Medicine, College of Physicians and Surgeons, New York, N. Y. (64). K

Swift, Walter B., M. D., 110 Bay State Road, Boston, Mass. (66). K

*Swingle, Deane B., Professor of Botany, Montana Agricultural Experiment Station, Bozeman, Mont. (62). 1913. G

*Swingle, Walter T., U. S. Department of Agriculture, Washington, D. C. (40). 1892. G

Swisher, Charles Clinton, Ph. D., LL. D., Cosmos Club, Washington, D. C. (62).

Switzer, George H., E. E., Bath, N. Y. (60). D

Sykes, George Francis, Department of Zoology, Oregon State Agricultural College, Corvallis, Ore. (63). F G

Sykes, Godfrey G., Carnegie Desert Laboratory, Tucson, Ariz. (66). G

*Sylvester, Albert Hale, Forest Supervisor, U. S. F. S., Leavenworth, Wash. (57). 1911. E M

*Symons, Thomas Baddeley, State Entomologist, College Park, Md. (54). 1906. F

*Taber, G. Major, Secretary, Geological Section, Southern California Academy of Sciences, Los Angeles, Cal. (51). 1915. E

*Taff, Joseph Alexander, 628 Cowper St., Palo Alto, Cal. (54). 1906. E

TAFT, ELIHU BARBER, Burlington, Vt. (36). H

Taft, Lorado, 6016 Ellis Ave., Chicago, Ill. (58).

Taggart, Rush, LL. D., 319 West 75th St., New York, N. Y. (49).

*Taggart, Walter Thomas, Ph. D., Professor of Organic Chemistry, University of Pennsylvania, Philadelphia, Pa. (65). 1915. C

Tagore, Rathindra Nath, 6 D. N. Tagore Lane, Jorasanko, Calcutta, India. (65). G

*Tainter, Charles Sumner, 3609 6th St., San Diego, Cal. (29). 1881. A B D

Tainter, Francis Stone, C. E., Far Hills, N. J. (51). D

*Takamine, Jokichi, 550 West 173d St., New York, N. Y. (57). 1908. C

Talbert, George A., Professor of Biology, Ripon College, Ripon, Wis. (62). F

*Talbot, Arthur Newell, C. E., Sc. D., Professor of Municipal and Sanitary Engineering, University of Illinois, Urbana, Ill. (51). 1906. D

*Talbot, Henry Paul, Ph. D., Professor of Inorganic and Analytical Chemistry, Massachusetts Institute of Technology, Boston, Mass. (44). 1896. C L

Talbot, Mrs. Laura Osborne, 1449 Fairmont St., N. W., Washington, D. C. (36). F G I

*Talbot, Marion, LL. D., Professor of Household Administration and Dean of Women, University of Chicago, Chicago, Ill. (54). 1910. C L

*Talbot, Mignon, Ph. D., Professor of Geology, Mount Holyoke College, South Hadley, Mass. (51). 1906. E

Talbot, Winthrop, M. D., Director, Department of Health and Economics, National Electric Lamp Association, Cleveland, Ohio. (62). H

Taliaferro, W. T. L., Professor of Agronomy, Maryland Agricultural College, College Park, Md. (66). M

*TALMAGE, JAMES EDWARD, Ph. D., Professor of Geology, University of Utah, Salt Lake City, Utah. (50). 1906. E

Talman, Charles Fitzhugh, U. S. Weather Bureau, Washington, D. C. (62). B E

Taltavall, William Allan, M. D., 126 Cajon St., Redlands, Cal. (57). K

Tannehill, Helen Train, R. F. D. 4, Zanesville, Ohio. (65). M

Tanner, Amy Eliza, Ph. D., Clark University, Worcester, Ohio. (65).

*TANNER, JOHN HENRY, Ph. D., Professor of Mathematics, Cornell University, Ithaca, N. Y. (47). 1899. A B

Tannreuther, George Washington, University of Missouri, Columbia, Mo. (63). F

*Tanquary, Maurice Cole, Ph. D., Department of Entomology and Zoology, Kansas State Agricultural College, Manhattan, Kansas. (60). 1915. F

Tarr, Leonard Merrill, U. S. Weather Bureau, New Haven, Conn. (64). A B

*Tarr, William Arthur, 27 Allan Place, Columbia, Mo. (63). 1915. E

*Tartar, Herman Vance, Oregon Experiment Station, Corvallis, Ore. (63). 1915. C

Tasker, Capt. Arthur N., U. S. A., Fort Wood, N. Y. (57). C F K

*Tatlock, John, President, Westchester Avenue Bank, 141 Broadway, New York, N. Y. (50). 1902. A

*Tatnall, Robert Richardson, Ph. D., Syracuse University, Syracuse, N. Y. (58). 1909. B

*Taubenhaus, Jacob J., Ph. D., Assistant in Plant Pathology, Agricultural Experiment Station, Newark, Del. (62). 1913. G

Taussig, James, 928 Rialto Building, St. Louis, Mo. (50). I

*Tawney, Guy Allen, Ph. D., Professor of Philosophy, University of Cincinnati, Cincinnati, Ohio. (58). 1911. H

Taylor, Miss A. Robina, U. S. Department of Agriculture, Washington, D. C. (63). G

*Taylor, Albert Hoyt, Ph. D., Professor of Physics, University of North Dakota, Grand Forks, N. D. (56). 1909. B

*Taylor, Alonzo Englebert, M. D., Professor of Physiological Chemistry, University of Pennsylvania, Philadelphia, Pa. (63). 1915. **K**

Taylor, Arthur W., 24½ Briggs St., Salem, Mass. (61). **B C**

Taylor, Mrs. Augustus P., Madison St., Thomasville, Ga. (63). **G**

Taylor, C. Marshall, P. O. Box 217, Texarkana, Texas. (60). **C**

Taylor, Charles E., Ph. D., 320–22 Niagara St., Niagara Falls, N. Y. (54). **C**

*Taylor, Charles H., Head, Department of Geology, Unversity of Oklahoma, Norman, Okla. (63). 1914. **E**

*Taylor, Edson Homer, Ph. D., Department of Mathematics, Eastern Illinois State Normal School, Charleston, Ill. (53). 1906. **A L**

Taylor, Edward Ballinger, Third Vice-President, Pennsylvania Lines, 901 Union Station, Pittsburgh, Pa. (50). **D**

*Taylor, Edward Randolph, Penn Yan, N. Y. (39). 1904. **C**

*Taylor, Edward Wyllys, M. D., Department of Neuropathology, Harvard Medical School, Boston, Mass. (50). 1902. **K**

Taylor, Estes Park, Utah Fruit Growers Association, Salt Lake City, Utah. (57). **F**

*Taylor, Ewing, M. D., Riverdale on Hudson, New York, N. Y. (58). 1911. **I K L**

*Taylor, Frank Bursley, 2905 Fairfield Ave., Fort Wayne, Ind. (39). 1897. **A E**

*Taylor, Frederick Wellington, Professor of Agriculture, New Hampshire College, Durham, N. H. (60). 1911. **G M**

Taylor, George H., 235 So. Virginia St., Reno, Nev. (66).

Taylor, Guy B., Ph. D., 5599 Baum Boulevard, Pittsburgh, Pa. (65).

Taylor, Hawley Otis, Ph. D., Department of Physics, Cornell University, Ithaca, N. Y. (62). **B**

Taylor, Henry W., Chief Engineer, House of Representatives, 100 5th St. N. E., Washington, D. C. (52). **D**

Taylor, Howard F., C. E., 5000 East 8th St., Kansas City, Mo. (58). **D**

Taylor, J. Erskine, M. D., Rockland, Pa. (51). **K**

*Taylor, J. N., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (62). 1915. **C**

*Taylor, James Morford, LL. D., Professor of Mathematics, Colgate University, Hamilton, N. Y. (33). 1901. **A D**

Taylor, James Townsend, C. E., P. O. Box 799, Honolulu, Hawaii. (60). **D**

Taylor, John Bellamy, E. E., 23 Lowell Road, Schenectady, N. Y. (60). **A B D**

*Taylor, Joseph S., Ph. D., 2275 Loring Place, Bronx, New York, N. Y. (61). 1915. **L**

Taylor, Julius H., M. D., 1409 Plain St., Columbia, S. C. (60). **K**

Taylor, Lyndon Bigelow, M. E., 12 Redwood St., Newport, R. I. (65). **D I**

*Taylor, Norman, 426 Argyle Road, Flatbush, Brooklyn, N. Y. (63). 1915. **G**

Taylor, Robert Stewart, 2905 Fairfield Ave., Fort Wayne, Ind. (39). **I**

Taylor, Samuel Alfred, C. E., Dean, School of Mines, University of Pittsburgh, Pittsburgh, Pa. (58). D

Taylor, Samuel Newton, Ph. D., Professor of Physics, Goucher College, Baltimore, Md. (58). B D

*Taylor, Thomas Smith, Assistant Professor of Physics, Yale University, New Haven, Conn. (65). 1915. B

Taylor, Walter Penn, Museum of Vertebrate Zoology, University of California, Berkeley, Cal. (63). F

*Taylor, William Alton, Sc. D., U. S. Department of Agriculture, Washington, D. C. (52). 1911. G M

Teas, William H., Marion, Va. (58). C

Tedesche, Leon G., M. D., 3596 Wilson Ave., Station V, Cincinnati, Ohio. (63). K

Teel, Ambrose W., M. D., Kahoka, Mo. (60). K

*Teeple, John Edgar, Ph. D., Consulting Chemist, 50 East 41st St., New York, N. Y. (57). 1909. C

*Teeters, Wilber John, State University of Iowa, Iowa City, Iowa. (50). 1911. C

Teggart, Frederick John, Bancroft Library, Berkeley, Cal. (65).

Teller, Edgar E., 3321 Sycamore St., Milwaukee, Wis. (63).

*Tello, Julio César, M. D., Lima, Peru, S. A. (62). 1913. K

Temple, Charles E., Riverdale, Md. (65).

*Temple, James Clarence, Professor of Bacteriology, Georgia Experiment Station, Experiment, Ga. (61). 1911. C G

Templeton, E. C., 375 Everett Ave., Palo Alto, Cal. (65).

*Templin, Olin, Professor of Philosophy, University of Kansas, Lawrence, Kans. (58). 1915. H

Terman, Lewis M., Stanford University, Cal. (65).

*Terry, Benjamin Taylor, M. D., Pathological Laboratories, Kings County Hospital, Brooklyn, N. Y. (54). 1907. F K

Terry, Mrs. Emily Hitchcock, 103 South St., Northampton, Mass. (63). G

Terry, Howard L., Inspector, State High School, Madison, Wis. (61).

*Terry, Robert James, M. D., Professor of Anatomy, Washington University, St. Louis, Mo. (53). 1906. K

Test, Louis Agassiz, Ph. D., Iowa State College, Ames, Iowa. (58). C F

Teufert, J. F., D. D. S., 323 1st St., Yuma, Arizona. (65). K

Thacher, Cornelius S., Barringer High School, Newark, N. J. (60). A

*Thacher, John Seymour, M. D., 20 West 50th St., New York, N. Y. (57). 1908. K

Thacher, Olive Day, Nordhoff, Cal. (66).

Thacher, Sherman D., Nordhoff, Cal. (66).

Thatcher, Roscoe Wilfred, Chief, Division of Agricultural Chemistry and Soils, Department of Agriculture, University Farm, St. Paul, Minn. (58). C

*THAW, BENJAMIN, Moorewood Place, Pittsburgh, Pa. (50). 1913. A D

*THAW, STEPHEN D., Allegheny Observatory, Pittsburgh, N. S., Pa. (60). 1913. A

*Thaxter, Roland, Ph. D., Professor of Cryptogamic Botany, Harvard University, Cambridge, Mass. (50). 1901. G

THAYER, JOHN ELIOT, Lancaster, Mass. (62). G

*Thayer, William Sydney, M. D., LL. D., Professor of Clinical Medicine, Johns Hopkins University, Baltimore, Md. (52). 1903. K

Thelberg, Elizabeth Burr, M. D., Resident Physician and Professor of Physiology and Hygiene, Vassar College, Poughkeepsie, N. Y. (50). H I K L

Thiele, Mrs. Erich A., 129 West North St., Canton, Ohio. (63). I

Thiele, F. C., 1247 Cooper St., Palo Alto, Cal. (65).

*Thiessen, Reinhardt, Ph. D., U. S. Bureau of Mines, Pittsburgh, Pa. (60). 1915. E G

*Thom, Charles, Ph. D., Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C. (50). 1901. G

*Thomas, Abram Owen, West Side, Iowa City, Iowa. (64). 1915. E

Thomas, Arthur H., West Washington Square, Philadelphia, Pa. (58).

Thomas, Calvin, LL. D., Professor of Germanic Languages and Literatures, Columbia University, New York, N. Y. (60). L

*Thomas, Carl Clapp, M. E., Professor of Mechanical Engineering, Johns Hopkins University, Baltimore, Md. (64). 1915. D

*Thomas, Evan, Professor of Mathematics, University of Vermont, Burlington, Vt. (60). 1915. A

*Thomas, Henry M., M. D., 1228 Madison Ave., Baltimore, Md. (60). 1911. K

Thomas, J. Bosley, 920 North Carrollton Ave., Baltimore, Md. (60). C

Thomas, J. Hanson, 1010 St. Paul St., Baltimore, Md. (60).

Thomas, John Jenks, M. D., 88 Bay State Road, Boston, Mass. (63). K

Thomas, Paul K. M., 39 Willow Drive, New Rochelle, N. Y. (57). H I L

Thomas, Major Robert Gibbes, Professor of Mathematics and Engineering, The Citadel, Charleston, S. C. (58). A D

Thomas, William Sturgis, M. D., 240 West 71st St., New York, N. Y. (60). K

Thompson, Miss Anna Ford, P. O. Box 32, Summit, N. J. (49). G

*Thompson, Caroline Burling, Ph D., Associate Professor of Zoology, Wellesley College, Wellesley, Mass. (58). 1913. F

Thompson, Crystal, Museum of Zoology, University of Michigan, Ann Arbor, Mich. (63). F

*Thompson, Frank E., 12th St. and 8th Ave., Boulder, Colo. (61). 1915. L

*Thompson, Gustave Whyte, 129 York St., Brooklyn, N. Y. (58). 1911. C D G I

*THOMPSON, HENRY DALLAS, Sc. D., Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (57). 1909. A

Thompson, Hugh L., M. E., Waterbury, Conn. (51). D I

Thompson, James, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (61). G

Thompson, James E., Mayville, Wis. (48).

Thompson, John, Pearson's Magazine, 425 East 24th St., New York, N. Y. (58).

*Thompson, Joseph Osgood, Ph. D., Associate Professor of Physics, Amherst College, Amherst, Mass. (41). 1893. **B**

Thompson, Leland R., 4208 Magoun Ave., East Chicago, Ind. (63).

*Thompson, Ralph Leroy, M. D., Director, Department of Pathology and Bacteriology, St. Louis University, St. Louis, Mo. (57). 1911. **K**

Thompson, Robert Neal, Professor of Physics, University of Montana, Missoula, Mont. (63). **B**

Thompson, W. F., Stanford University, Cal. (65).

Thompson, Rev. Walter, D. D., Garrison, N. Y. (49).

Thompson, Walter N., M. D., Sullivan, Ind. (58). **C K**

Thompson, Walter Palmer, Professor of Biology, University of Saskatchewan, Saskatoon, Canada. (64). **F**

Thompson, William Baker, 1621 S St., N. W., Washington, D. C. (63).

*Thompson, William Gilman, M. D., 61 West 49th St., New York, N. Y. (50). 1902. **K**

*Thomson, Albert, American Museum of Natural History, New York, N. Y. (64). 1915. **E**

*Thomson, Elihu, Sc. D., Ph. D., E. E., 22 Monument Ave., Swampscott, Mass. (37). 1898. **B C D**

Thomson, Henry Nellis, E. M., Smelter Department, United Verde Co., Clarkdale, Ariz. (58). **B C D**

*Thomson, Robert Boyd, Botanical Department, University of Toronto, Toronto, Canada. (57). 1911. **G**

*Thornber, John James, Professor of Botany, University of Arizona, Tucson, Ariz. (50). 1905. **G**

*Thornburg, Charles Lewis, Ph. D., Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. (44). 1897. **A D L**

*Thorndike, Edward Lee, Ph. D., Professor of Educational Psychology, Columbia University, New York, N. Y. (49). 1901. **H L**

*Thorndike, Townsend William, M. D., 20 Newbury St., Boston, Mass. (58). 1913. **H K**

Thorne, Charles E., Director, Ohio Agricultural Experiment Station, Wooster, Ohio. (66). **M**

Thorne, Samuel, Jr., 19 Cedar St., New York, N. Y. (65).

*Thorp, Frank Hall, Ph. D., 200 Mt. Vernon St., West Roxbury, Mass. (57). 1911. **C E**

*Thorvaldson, Thorbergur, University of Saskatchewan, Saskatoon, Can. (58). 1915. **C**

*Thruston, R. C. Ballard, 1000–1004 Columbia Bldg., Louisville, Ky. (36). 1896. **E**

Thurber, Charles Herbert, Ph. D., 29 Beacon St., Boston, Mass. (52). **I**

Thurber, Samuel Wood, M. D., 104 East 39th St., New York, N. Y. (57). **K**

Thurston, Azor, Grand Rapids, Ohio. (58). **C**

Thwing, Charles Franklin, D. D., LL. D., President, Western Reserve University, Cleveland, Ohio. (63). **B**

Tibbals, George Attwater, C. E., 148 Milton St., Brooklyn, N. Y. (51). **D**

Tibbetts, James I., M. D., Wayzata, Minn. (60). **K**

Tibbetts, Sydney A., 1613 Josephine St., Berkeley, Cal. (60). **C**

Tickell, Alfred H., M. D., Nevada City, Cal. (60). **K**

Tiffany, Harold Edward, Assistant Professor of Chemistry, Delaware College, Newark, Del. (58). **B C K**

Tiffany, Louis Comfort, 401 Fifth Ave., New York, N. Y. (50).

*Tilden, Charles Joseph, C. E., Professor of Civil Engineering, Johns Hopkins University, Baltimore, Md. (60). 1915. **D**

Tillery, Robert G., Colonial Sugars Co., Gramercy, La. (64).

*Tillman, Col. Samuel Escue, U. S. A., Marven Place, Princeton, N. J. (54). 1906. **B C E**

Tilney, Frederick, M. D., 161 Henry St., Brooklyn, N. Y. (60). **K**

Tilson, Prof. P. S., Houston Laboratories, Houston, Texas. (50). **C**

*Tilton, John Littlefield, Professor of Geology and Physics, Simpson College, Indianola, Iowa. (50). 1906. **B E**

*Timberlake, P. H., 416 Vermont Building, Salt Lake City, Utah. (63). 1915. **F**

Timolat, J. G., Red Bank, N. J. (57).

Tinker, Martin Buell, M. D., Assistant Professor of Surgery, Cornell University Medical School, Ithaca, N. Y. (61). **K**

Tinsley, John D., Pineland, Texas. (66). **M**

Tisdale, Wendell H., Department of Plant Pathology, University of Wisconsin, Madison, Wis. (66). **G**

*Titchener, Edward Bradford, Sc. D., Ph. D., LL. D., Sage Professor of Psychology, Cornell University, Ithaca, N. Y. (51). 1902. **H**

Titsworth, Alfred Alexander, C. E., Sc. D., Dean of Mechanical Arts, Rutgers College, New Brunswick, N. J. (58). **A B D**

*Tittmann, Otto Hilgard, Sc. D., LL. D., President National Geographic Society, Washington, D. C. (24). 1888. **A**

Titus, E., Jr., 10 East 70th St., New York, N. Y. (50).

*Titus, Edward Gaige, Sc. D., Professor of Zoology and Entomology, Agricultural College of Utah, Logan, Utah. (50). 1906. **F**

Tobey, Wilmot Maxwell, Geodetic Survey of Canada, Ottawa, Canada. (62). **A**

*Toch, Maximilian, 329 West 86th St., New York, N. Y. (57). 1909. **C**

Todd, Albert May, Kalamazoo, Mich. (37). **C**

Todd, C. C., Associate Professor of Chemistry, State College of Washington, Pullman, Wash. (65). **C**

*Todd, David, Ph. D., Professor of Astronomy and Navigation, and Director of Observatory, Amherst College, Amherst, Mass. (27). 1881. **A B D K**

Todd, James, C. E., President, Sterling Varnish Co., Pittsburgh, Pa. (61). **C**

Todd, James Campbell, M. D., Professor of Pathology, University of Colorado, Boulder, Colo. (64). **F K**

*Todd, James Edward, Assistant Professor of Geology and Mineralogy, University of Kansas, Lawrence, Kans. (22). 1886. **E**

*Todd, Joe H., M. D., Christmas Knoll, Wooster, Ohio. (48). 1913. **H K**

Todd, Thomas Wingate, Professor of Anatomy, Western Reserve Medical College, Cleveland, Ohio. (64). **F H K**

Todd, William J., M. D., Mt. Washington, Baltimore, Md. (51). **K L**

*Toll, Charles Hansen, Ph. D., Professor of Philosophy, Amherst College, Amherst, Mass. (63). 1915. **H**

*Tolman, Lucius Moody, Transportation Building, Chicago, Ill. (58). 1911. **C**

*Tolman, Richard Chase, University of California, Berkeley, Cal. (63). 1915. **C**

Tomkins, Calvin, C. E., 17 Battery Place, New York, N. Y. (60). **D**

Tomlinson, L. C., E. E., 158 Atlantic St., Atlantic, Mass. (60). **D**

Tompkins, Perry T., 2526 Durant Ave., Berkeley, Cal. (58). **A B C D L**

Tonnele, Theodore, Metallurgical Engineer, 258 West 70th St., New York, N. Y. (50). **E**

Toomey, Noxon, 11 Aberdeen Place, Hillcrest, St. Louis, Mo. (64). **F K**

Toops, George Noble, C. E., Salina, Okla. (62). **D**

Torelle, Ellen, Department of State, Madison, Wis. (64).

Torney, George Henry, Jr., M. D., Bournewood Hospital, Brookline, Mass. (60). **K**

*Torrey, Harry Beal, Ph. D., Reed College, Portland, Oregon. (52). 1905. **F K**

*Tothill, John Douglas, Department of Entomology, Cornell University, Ithaca, N. Y. (65). 1915. **F**

Totman, David M., M. D., 303 Montgomery St., Syracuse, N. Y. (50). **K**

*Tottingham, William Edward, Assistant Professor of Agricultural Chemistry, College of Agriculture, University of Wisconsin, Madison, Wis. (58). 1915. **C**

*Toumey, James William, Director, Yale School of Forestry, New Haven, Conn. (58). 1911. **F M**

Toussaint, Camille August, 3688 Boulevard, Jersey City, N. J. (58). **A**

*Tower, Olin Freeman, Ph. D., Professor of Chemistry, Adelbert College, Cleveland, Ohio. (50). 1904. **C**

*Tower, Ralph Winfred, Ph. D., Curator of Physiology, American Museum of Natural History, New York, N. Y. (52). 1905. **K**

*Tower, William Lawrence, Associate Professor of Embryology, University of Chicago, Chicago, Ill. (55). 1909. **F**

Tower, Willis Eugene, 344 North Normal Parkway, Chicago, Ill. (60). **A**

Towl, Forrest M., C. E., 794 Carroll St., Brooklyn, N. Y. (60). **D**

*Towle, William Mason, Professor of Industrial Engineering, Clarkson School of Technology, Potsdam, N. Y. (44). 1902. D

*Townley, Sidney Dean, Sc. D., Associate Professor of Applied Mathematics, Stanford University, Cal. (53). 1906. A

*Townsend, Charles H. T., Ph. D., U. S. National Museum, Washington, D. C. (60). 1914. F

*Townsend, Charles Haskins, Director, New York Aquarium, Battery Park, New York, N. Y. (58) 1914. F

*Townsend, Charles Orrin, Ph. D., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (46). 1902. G

*Townsend, Edgar Jerome, Ph. D., Dean, College of Science, and Professor of Mathematics, University of Illinois, Urbana, Ill. (54). 1906. A L

Townsend, Harvey Gates, Ph. D., 307 Prospect Heights, Northampton, Mass. (65).

*Tozzer, Alfred Marston, Ph. D., Assistant Professor of Anthropology, Harvard University, Cambridge, Mass. (58). 1908. H

Trabert, Charles L., 2736 Elmwood Ave., Berkeley, Cal. (65).

Tracey, Joshua Irving, Department of Physics, Pennington Seminary, Upperco, Md. (57). A B

Tracy, Grover, Congress and Honore Sts., Chicago, Ill. (65).

*Tracy, Samuel Mills, Biloxi, Miss. (27). 1881. G

Tracy, William W., Sc. D., The Roanoke, Washington, D. C. (63). G

*Transeau, Edgar Nelson, Ph. D., Professor of Botany, State Normal School, Charleston, Ill. (53). 1909. G

*Traphagen, Frank Weiss, Ph. D., Professor of Metallurgy and Assaying, Colorado School of Mines, Golden, Colo. (35). 1889. C E F

Treadway, Lyman H., 8917 Euclid Ave., Cleveland, Ohio. (63).

*Treadwell, Aaron Louis, Ph. D., Professor of Zoology, Vassar College, Poughkeepsie, N. Y. (57). 1909. F

Treat, Erastus Buck, 942 St. Nicholas Ave., New York, N. Y. (29). F I

*TRELEASE, WILLIAM, Sc. D., LL. D., Head, Department of Botany, University of Illinois, Urbana, Ill. (39). 1891. G

Trettien, A. W., Fairbanks Hall, Springfield, Mo. (61).

Trew, Niel C., M. D., Box 789, R. F. D. 5, Los Angeles, Cal. (60). K

Trippett, J. Fenton, M. D., Amos, W. Va. (60). K

Trocon, Albert A., C. E., care Midland Bridge Co., Kansas City, Mo. (60). D

Troland, Leonard Thompson, 11 Beltran St., Malden, Mass. (63). F

Troop, James, Professor of Entomology, Purdue University, La Fayette, Ind. (60). F

*Trotter, Spencer, M. D., Professor of Biology and Geology, Swarthmore College, Swarthmore, Pa. (55). 1914. E F H

*Trowbridge, Arthur C., Department of Geology, State University of Iowa, Iowa City, Iowa. (58). 1915. E

*Trowbridge, Augustus, Ph. D., Professor of Physics, Princeton University, Princeton, N. J. (47). 1900. B

*Trowbridge, Charles Christopher, Sc. D., Assistant Professor of Physics, Columbia University, New York, N. Y. (50). 1901. B

Trowbridge, Mrs. Luther H., 304 West 99th St., New York, N. Y. (21). G I

Trowbridge, Perry F., Ph. D., Professor of Agricultural Chemistry, College of Agriculture, Columbia, Mo. (66). C M

*True, Alfred Charles, Sc. D., Ph. D., Director, Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C. (52). 1911. L M

*True, Gordon Haines, Professor of Animal Husbandry, University of California, Berkeley, Cal. (64). 1915. M

*True, Rodney Howard, Ph. D., U. S. Department of Agriculture, Washington, D. C. (46). 1899. G

*Truman, James, D. D. S., LL. D., Department of Dentistry, University of Pennsylvania, Philadelphia, Pa. (54). 1911. K

Trumbull, Alonzo George, 50 Church St., New York, N. Y. (64). D

Trumper, Frederick James, C. E., 1843 Rudwick Road, Cleveland, Ohio. (63). D

Trumper, Jessie Smith, M. D., P. O. Box 5, Cleveland, Ohio. (60). K

Tsou, Ying Hsuwen, Hull Botanical Laboratory, University of Chicago, Chicago, Ill. (63). F G

*Tubbs, Frank Dean, S. T. D., Professor of Astronomy and Geology, Bates College, Lewiston, Me. (60). 1915. A E

Tucker, Charles Edward, M. D., P. O. Box 45, Joppa, Ill. (58). H

Tucker, David Andrew, The Westmoreland, Mt. Auburn, Cincinnati, Ohio. (63). F

Tucker, Herman F., C. E., 1011 Alaska Building, Seattle, Wash. (60). D

Tucker, Colonel N. Beverley, Professor of Geology and Associate Professor of Chemistry, Virginia Military Institute, Lexington, Va. (55). C E

*Tucker, Richard Hawley, C. E., Lick Observatory, Mt. Hamilton, Cal. (50). 1902. A D

Tucker, William Albert, University Park, Denver, Colo. (51). G H

Tucker, William Conquest, C. E., 156 Fifth Ave., New York, N. Y. (51). D

*Tucker, Willis Gaylord, M. D., Ph. D., Professor of Chemistry and Toxicology, Albany Medical College, Albany, N. Y. (29). 1888. C K

*Tuckerman, Alfred, Ph. D., University Club, New York, N. Y. (39). 1891. D

*Tuckerman, Frederick, M. D., Ph. D., Amherst, Mass. (58). 1909. F

*Tuckerman, Louis Bryant, Jr., Assistant Professor of Physics, University of Nebraska, Lincoln, Neb. (50). 1906. B

*Tufts, James Hayden, Ph. D., LL. D., Professor of Philosophy, University of Chicago, Chicago, Ill. (58). 1910. L

Tufts, Warren P., Department of Horticulture, Oregon State Agricultural College, Corvallis, Oreg. (66). M

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Tullock, Herbert S., C. E., Missouri Valley Bridge and Iron Co., Leavenworth, Kans. (62). D
Tuohy, John, corner G and Tulare Sts., Tulare, Cal. (50). D I
Turck, Fenton Benedict, M. D., 14 East 53d St., New York, N. Y. (51). K
Turman, A. Emmet, M. D., 17 West Grace St., Richmond, Va. (60). K
Turnbull, Thomas, Jr., M. D., 835 Western Ave., Pittsburgh, Pa. (50). F K
*Turneaure, Frederick Eugene, C. E., Professor of Engineering, University of Wisconsin, Madison, Wis. (51). 1906. D
*Turner, Arthur Bertram, Ph. D., College of the City of New York, New York, N. Y. (52). 1906. A
Turner, Eben T., P. O. Box 312, Ithaca, N. Y. (60). B
Turner, James Jesse, Professor of Biology, Hiram College, Hiram, Ohio. (64). F
Turner, John Pickett, College of the City of New York, New York, N. Y. (63).
Turner, William Franklin, Vienna, Va. (60). F
Turpin, George Melvin, Professor of Poultry Husbandry, Iowa State College, Ames, Iowa. (64). M
*Turrentine, John William, Ph. D., U. S. Department of Agriculture, Washington, D. C. (53). 1909. C
Turrill, G. E., M. D., 489 The Arcade, Cleveland, Ohio. (63). K
Tuteur, Edwin B., M. D., 31 North State St., Chicago, Ill. (60). K
*Tuttle, Albert Henry, Professor of Biology, University of Virginia, Charlottesville, Va. (17). 1874. F
*Tuttle, David Kitchell, Ph. D., U. S. Mint, Philadelphia, Pa. (58). 1911. B C
*Tuttle, Franklin Elliot, Ph. D., Professor of Chemistry, State University of Kentucky, Lexington, Ky. (58). 1911. C
Tweedy, Miss Alice B., 70 Morningside Drive, New York, N. Y. (49).
*Twenhofel, William Henry, Associate Professor of Geology and Paleontology, University of Kansas, Lawrence, Kans. (61). 1914. E
Twiggs, John W., 2102 California St., San Francisco, Cal. (65).
Twiss, Edith Minot, Ph. D., Assistant Professor of Botany, Washburn College, Topeka, Kans. (62). G
Twiss, George Ransom, Professor of Principles and Practice of Education, Ohio State University, Columbus, Ohio. (64). B L
Twiss, Wilfred Charles, Assistant Professor of Botany, University of Utah, Salt Lake City, Utah. (64). G
*Twitchell, Ernst, Wyoming, Ohio. (39). 1891. C
*Twitchell, Mayville William, Ph. D., New Jersey Geological Survey, Trenton, N. J. (63). 1913. E
*Twitmyer, Edwin Burket, Ph. D., Professor of Psychology, University of Pennsylvania, Philadelphia, Pa. (58). 1911. H L
*Tyler, Ansel Augustus, Ph. D., Professor of Biology, Bellevue College, Bellevue, Nebr. (50). 1906. F G K

Tyler, DeWitt C., M. D., Clifton, Kans. (60). **K**

*Tyler, Harry Walter, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (47). 1906. **A L**

*Tyrrell, Joseph Burr, E. M., 14 Walmer Road, Toronto, Canada. (50). 1903. **D E**

Tyzzer, Ernest Edward, M. D., 41 Fairmont Ave., Wakefield, Mass. (64). **F K**

Udden, Anton David, Professor of Geology and Natural History, Augustana College, Rock Island, Ill. (63). **B E**

*Udden, Johan August, Ph. D., Bureau of Economic Geology, University of Texas, Austin, Texas. (54). 1906. **E**

Uehling, Fritz Frederick, Passaic, N. J. (63).

Uhlenhuth, Eduard, Ph. D., Rockefeller Institute for Medical Research, New York, N. Y. (65). **F K**

*Uhler, Horace Scudder, Ph. D., Assistant Professor of Physics, Yale University, New Haven, Conn. (63). 1913. **B**

Uhlig, Edward C., care Citizens Gas Works, 5th and Hoyt Sts., Brooklyn, N. Y. (58). **C**

*Ullmann, Harry Maas, Ph. D., Professor of Analytical and Industrial Chemistry, Lehigh University, South Bethlehem, Pa. (54). 1909. **C**

*Ulrey, Albert Brennus, Professor of Biology, University of Southern California, Los Angeles, Cal. (54). 1915. **F**

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*Underhill, Anthony Lispenard, Ph. D., 1146 East 59th St., Chicago, Ill. (58). 1911. **A**

Underhill, Mary, 87 Hamilton Place, New York, N. Y. (60). **A**

*Underwood, Paul Halladay, Assistant Professor of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. (64). 1915. **D**

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*Updegraff, Milton, Professor of Mathematics, U. S. N., 1719 35th St., Washington, D. C. (40). 1895. **A**

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*Upson, Walter Lyman, Assistant Professor of Electrical Engineering, Union University, Schenectady, N. Y. (62). 1915. **D**

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Usher, Prof. Susannah, 9 Kirkland Place, Cambridge, Mass. (58). **C**

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Vail, Carey E., Assistant Professor of Chemistry, State Agricultural College, Fort Collins, Colo. (63). **C**

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Valentine, Morris Crawford, P. O. Box 15, Station B, Brooklyn, N. Y. (52). **F G L**

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Van Arsdale, Miss May Belle, Department of Physical Science, Teachers College, New York, N. Y. (56). **B C**

Van Arsdale, William H., E. M., Hotel Windermere, Chicago, Ill. (58). **D**

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Van Cleef, Eugene, State Normal School, Duluth, Minn. (63).

Van Cortlandt, R. B., 30 Pine St., New York, N. Y. (57).

Van den Burg, William H., M. D., 30 West 48th St., New York, N. Y. (57). **K**

Vanderbilt, Cornelius, M. E., 30 Pine St., New York, N. Y. (51). **D**

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Van der Laan, John, M. D., 200 South Terrace St., Muskegon, Mich. (51). **K**

Vanderlip, Frank Arthur, LL. D., "Beechwood," Scarboro, N. Y. (62).

Vander Naillen, Albert, C. E., 5204 Lawton Ave., Oakland, Cal. (65). **D**

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Vander Veer, Edgar Albert, M. D., 28 Eagle St., Albany, N. Y. (60). **K**

*Van Dine, Delos Lewis, Bureau of Entomology, U. S. Department of Agriculture, Washington, D. C. (51). 1906. **F**

Van Duyn, John, M. D., 466 James St., Syracuse, N. Y. (50). **F K**

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Van Dyck, William Van Bergen, E. E., care General Electric Co., Caixa do Correio 109, Rio de Janeiro, Brazil, S. A. (50). B D

*Van Dyke, Dr. Edwin C., Department of Entomology, University of California, Berkeley, Cal. (65). 1915. F

Van Es, Leunis, M. D., V. S., North Dakota Agricultural College, Agricultural College, N. D. (62). F K

*Van Hise, Charles Richard, Ph. D., LL. D., President, University of Wisconsin, Madison, Wis. (37). 1890. E L

*Van Hook, James M., Professor of Botany, University of Indiana, Bloomington, Ind. (56). 1908. G

Van Hook, Weller, M. D., 7124 Coles Avenue, Chicago, Ill. (60). K

*VAN HORN, FRANK ROBERTSON, Ph. D., Professor of Geology and Mineralogy, Case School of Applied Science, Cleveland, Ohio. (57). 1909. E

Van Isschot, Pierre E. Charles, E. M., Casilla 240, Guayaquil, Ecuador, S. A. (60). D

*Van Name, Willard G., Ph. D., New York State Museum, Albany, N. Y. (54). 1906. F

*Van Norman, Hubert Everett, Vice-Director and Dean, University Farm School, Davis, Cal. (64). 1915. G M

*Van Ornum, John Lane, Professor of Civil Engineering, Washington University, St. Louis, Mo. (50). 1904. A D L

*VAN ORSTRAND, CHARLES EDWIN, Geophysical Laboratory, Carnegie Institution, Washington, D. C. (58). 1911. A B E

*Van Slyke, Lucius Lincoln, Ph. D., Professor of Chemistry, New York Agricultural Experiment Station, Geneva, N. Y. (41). 1901. C

Van Trump, Isaac, 2337 South Paulina St., Chicago, Ill. (58). B C D

*Van Tuyl, Francis Maurice, Walker Museum, Chicago, Ill. (63). 1915. E

*Van Vleck, Edward Burr, Ph. D., LL. D., Professor of Mathematics, University of Wisconsin, Madison, Wis. (57). 1909. A

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Van Wagenen, Marvin J., Department of Psychology, Ohio State University, Columbus, Ohio. (66). H

Van Winkle, Edgar Beach, C. E., 115 East 70th St., New York, N. Y. (49). C

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Van Zwalenburg, Cornelius, M. D., Riverside, Cal. (60). K

Varney, William Wesley, M. E., 710 North Carey St., Baltimore, Md. (60). D

Varrelman, Ferdinand A., 1358B Spring St., Berkeley, Cal. (63). F

Vass, Alonzo F., Oregon State Agricultural College, Corvallis, Oregon. (65). G

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Vaughan, Harold S., M. D., 616 Madison Ave., New York, N. Y. (58). K

Vaughan, Richard E., Agricultural Experiment Station, Madison, Wis. (63). G

*Vaughan, T. Wayland, Ph. D., U. S. Geological Survey, Washington, D. C. (52). 1906. E F G H I

*Vaughan, Victor Clarence, M. D., Sc. D., Ph. D., LL. D., Dean, Department of Medicine and Surgery, University of Michigan, Ann Arbor, Mich. (58). 1910. K

*VAUX, GEORGE, JR., 1606 Morris Building, Philadelphia, Pa. (33). 1906. A E

Vavra, Joseph, care The Holly Sugar Co., Huntington Beach, Cal. (58). C

Vawter, Charles Erastus, Jr., Professor of Physics, Virginia Polytechnic Institute, Blacksburg, Va. (57). B

*Veatch, Arthur Clifford, 7 Richmond Terrace, Whitehill, S. W., London, England. (52). 1907. E

*Veazie, Henry Augustus, M. D., 1305 St. Mary St., New Orleans, La. (55). 1914. K

*Veblen, Oswald, Ph. D., Professor of Mathematics, Princeton University, Princeton, N. J. (58). 1909. A C

*VEDDER, CAPTAIN EDWARD B., Medical Corps, U. S. A., Army Medical School, Washington, D. C. (57). 1911. K

Veeder, Curtis Hussey, M. E., 17 Marshall St., Hartford, Conn. (50). B D

Veeder, Major Albert, M. D., Lock Box 1108, Lyons, N. Y. (60). A K

Veeder, Martha A., Lyons, N. Y. (65). B

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*Veitch, Fletcher Pearre, Chief, Leather and Paper Laboratory, U. S. Department of Agriculture, Washington, D. C. (62). 1914. C

Veldee, Milton V., U. S. Marine Hospital, Louisville, Ky. (65).

*Venable, Francis Preston, Ph. D., LL. D., President, University of North Carolina, Chapel Hill, N. C. (39). 1891. C

Venable, William Mayo, C. E., 812 Collins St., Pittsburgh, Pa. (50). D

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Verner, S. P., Columbia, S. C. (58). H

Ver Planck, William Gordon, 149 Broadway, New York, N. Y. (57).

*Verrill, Addison Emery, Professor of Zoology, Yale University, New Haven, Conn. (47). 1898. F

*Verwiebe, Walter August, Ohio State University, Columbus, Ohio. (65). 1915. E

*Very, Frank Washington, Director, Westwood Astrophysical Observatory, Westwood, Mass. (60). 1911. A

*Vestal, Arthur Gibson, Hull Botanical Laboratory, University of Chicago, Chicago, Ill. (63). 1915. F G

Vickery, Roy Albion, Brownsville, Texas. (58). F

*Viehoever, Arno, Ph. D., Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C. (65). 1915. C

*Viereck, Henry Lorenz, State Insectary, Sacramento, Cal. (58). 1913. CEFGHIKL

Vietor, Agnes C., M. D., Trinity Court, Boston, Mass. (57). K

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*Villarello, Juan D., E. M., 5a Cipres No. 2728, Mexico, D. F., Mexico. (57). 1911. E

Vincent, Clarence C., Associate Professor of Horticulture, College of Agriculture, Moscow, Idaho. (66). GM

*Vincent, George Edgar, Ph. D., LL. D., President, University of Minnesota, Minneapolis, Minn. (58). 1910. L

*Vincent, Swale, M. D., Sc. D., Professor of Physiology, University of Manitoba, Winnipeg, Canada. (57). 1908. K

*Vinson, Albert Earl, Ph. D., Agricultural Experiment Station, Tucson, Ariz. (58). 1911. C

*Viol, Charles Herman, P. O. Box 22, Oakland Station, Pittsburgh, Pa. (58). 1914. C

*Visher, S. S., Professor of Geology, Walker Museum, University of Chicago, Chicago, Ill. (64). 1915. E

Visscher, L. G., M. D., 520 Homer Laughlin Building, Los Angeles, Cal. (58). K

Vitz, Prof. Martin, R. F. D. 29, Plymouth, Wis. (62). K

Vivian, Alfred, Professor of Agricultural Chemistry, Ohio State University, Columbus, Ohio. (62). C

*Voegtlin, Carl, M. D., Ph. D., Hygienic Laboratory, Washington, D. C. (60). 1911. FK

*Vogdes, Anthony Wayne, Brigadier-General, U. S. A., Retired, 2425 First St., San Diego, Cal. (32). 1885. EF

Voje, John Henry, M. D., Proprietor, Waldheim Park, Oconomowoc, Wis. (51). K

Volck, W. H., Agricultural Experiment Station, Watsonville, Cal. (65). F

Volkmann, George F., 2307 Broadway, San Francisco, Cal. (66).

vom Berge, Mrs. Genevieve S., 121 Chapin Parkway, Buffalo, N. Y. (63).

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v. Bichowsky, F. Russell, Ventura, Cal. (65). C

*von Ende, Carl Leopold, Ph. D., Professor of Chemistry, University of Idaho, Moscow, Idaho. (58). 1911. CL

von Hermann, C. F., 83 West 5th St., Atlanta, Ga. (51). B

*von Hoffman, Charles, M. D., 2669 California St., San Francisco, Cal. (51). 1913. HK

*von Huene, F. Baron, Ph. D., Professor of Paleontology, University of Tübingen, Tübingen, Germany. (63). 1915. E

*von Ihering, Dr. Herman, Director, Museu Paulista, Caixa g, São Paulo, Brazil, S. A. (51). 1914. FH

*von Isakovics, Alois, care Synfleur Scientific Laboratories, Monticello, N. Y. (55). 1909. C

von Keller, Frederick P. P., M. D., 721 C St., N. W., Ardmore, Okla. (60). **K**

v. Körösy, K., M. D., VI Leudvaygasse 25, Budapest, Hungary. (65). **K**

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*von Schrenk, Hermann, Ph. D., 4139 McPherson Ave., St. Louis, Mo. (49). 1901. **G**

Voorhees, John Francis, Local Office, Weather Bureau, Knoxville, Tenn. (64). **A B D**

Voorhees, John H., New Jersey Experiment Station, New Brunswick, N. J. (65). **G M**

*Voorhees, Louis Augustus, 111 Carroll Place, New Brunswick, N. J. (57). 1911. **C K**

*Voorhees, Stockton S., U. S. Bureau of Standards, Washington, D. C. (57). 1914. **D**

Voorhees, Sheldon, M. D., Auburn, N. Y. (60). **K**

*Vorhies, Charles Taylor, Ph. D., Professor of Zoology, University of Utah, Salt Lake City, Utah. (60). 1915. **F**

Vosburgh, Charles H., 78 Bergen Ave., Jamaica, N. Y. (60). **C**

Vosburgh, William L., 79 Central Ave., Newtonville, Mass. (60). **A**

Voshell, Bertram Clark, 1229 Munsey Building, Baltimore, Md. (66).

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*Vreeland, Frederick King, E. E., 31 Nassau St., New York, N. Y. (50). 1908. **B D G**

Vrooman, Carl, Assistant Secretary, U. S. Department of Agriculture, Washington, D. C. (66). **F G M**

Wackenhuth, Frederick Christopher, Jr., 57 Freeman St., Newark, N. J. (53). **C**

*Waddell, John, Sc. D., Ph. D., Assistant Professor of Chemistry, School of Mining, Kingston, Ontario, Canada. (57). 1909. **C**

*Waddell, John Alexander Low, Sc. D., LL. D., Orear-Leslie Building, Kansas City, Mo. (58). 1911. **D L**

Waddell, Miss Mary Evelyn Gertrude, St. Margaret's College, Toronto, Canada. (60). **A**

Wade, E. Marion, State Board of Health, Minneapolis, Minn. (63). **K**

Wade, Frank C., M. D., Lima, Ind. (58). **K**

Wade, Frank S., 6355 De Longpre Ave., Los Angeles, Cal. (60). **C**

Wade, Joe S., Bureau of Entomology, Department of Agriculture, Wellington, Kansas. (65). **F**

Wade, John W., M. D., 318 North Second St., Millville, N. J. (51). **I**

Wadleigh, Prof. Walter Hiram, 1725 Fairmount Ave., Wichita, Kans. (61). **B**

*Wadsworth, Augustus Baldwin, M. D., Laboratories, State Health Department, Albany, N. Y. (62). 1915. **K**

*WADSWORTH, FRANK LAWTON OLCOTT, E. M., Commonwealth Trust Building, Pittsburgh, Pa. (52). 1904. **A B D**

Wadsworth, Herbert, Avon, N. Y. (52). **D E**

*Wadsworth, M. Edward, Ph. D., Dean of School of Mines and Metallurgy, and Emeritus Professor of Mining Geology, Pennsylvania State College, State College, Pa., also Dean Emeritus of School of Mines and Professor of Mining Geology, University of Pittsburgh, Pittsburgh, Pa. (23). 1874. **E L**

Wadsworth, Richard G., M. D., 522 Commonwealth Ave., Boston, Mass. (60). **K**

Wadsworth, William S., M. D., 207 South 45th St., Philadelphia, Pa. (54). **K**

*Waggoner, Chauncey William, Ph. D., Professor of Physics, University of West Virginia, Morgantown, W. Va. (61). 1911. **B**

*Wagner, Frank Caspar, Professor of Steam Engineering, Rose Polytechnic Institute, Terre Haute, Ind. (34). 1897. **D**

*Wagner, George, Assistant Professor of Zoology, University of Wisconsin, Madison, Wis. (46). 1909. **F L**

*Wagner, Samuel, 410 South 15th St., Philadelphia, Pa. (51). 1906. **A**

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Wainwright, Jacob T., C. E., P. O. Box 774, Chicago, Ill. (51). **B D I**

Wainwright, John William, M. D., 80 Washington Square, East, New York, N. Y. (51). **K**

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*Wait, John Cassan, C. E., 233 Broadway, New York, N. Y. (58). 1915. **D**

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*Waite, Frederick Clayton, Ph. D., Professor of Histology and Embryology, Western Reserve University, Cleveland, Ohio. (50). 1906. **F K**

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*Waite, Merton Benway, U. S. Department of Agriculture, Washington, D. C. (37). 1893. **G**

Waite, Willis W., M. D., P. O. Box 63, El Paso, Texas. (60). **K**

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*Wakeman, Alfred J., Ph. D., Woody Crest, West Haven, Conn. (55). 1908. **C**

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Walcott, Frederic C., Englewood, N. J. (60). I

Walcott, Gregory Dexter, Ph. D., Professor of Philosophy and Psychology, Hamline University, St. Paul, Minn. (61). H L

Waldbott, Sigmund, care Ohio Mechanic's Institute, Cincinnati, Ohio. (60). C

*Walden, Percy Talbot, Ph. D., 210 St. Ronan St., New Haven, Conn. (63). 1915. C

Waldenberger, Charles A., Ph. D., 63 East 90th St., New York, N. Y. (61). C

*Waldo, Clarence A., Ph. D., Professor of Mathematics, Washington University, St. Louis, Mo. (37). 1889. A

Waldo, Edward Hardenbergh, E. E., 802 West Illinois St., Urbana, Ill. (60). D

Waldo, Hon. George E., 320 South Madison Ave., Pasadena, Cal. (57). I

*Waldron, Clare Bailey, Professor of Horticulture, North Dakota Agricultural College, Agricultural College, N. D. (62). 1915. G

Waldron, Lawrence Root, Superintendent, Sub-Experiment Station, Dickinson, N. D. (61). G

Wales, Charles Marshall, M. E., 410 Riverside Drive, New York, N. Y. (51). D

Wales, Harold E., 3333 19th St., San Francisco, Cal. (65).

*Walker, Buz M., Ph. D., Professor of Mathematics, Mississippi A. and M. College, Agricultural College, Miss. (57). 1908. A

*Walker, Sir Edmund, LL. D., 99 St. George St., Toronto, Canada. (38). 1914. E

*Walker, Edmund Murton, M. D., Assistant Professor of Biology, University of Toronto, Toronto, Canada. (62). 1914. F

*Walker, Elda Rema, Ph. D., Assistant Professor of Botany, University of Nebraska, Lincoln, Nebr. (62). 1915. G

*Walker, Ernest, Alabama Polytechnic Institute, Auburn, Ala. (52). 1911. G

Walker, Leva B., Station A., Lincoln, Nebraska. (63).

Walker, Miles J., M. D., Yorkville, S. C. (60). K

*Walker, Percy Hargraves, U. S. Bureau of Standards, Washington, D. C. (55). 1908. C

*Walker, Perley F., M. E., Dean, School of Engineering, University of Kansas, Lawrence, Kans. (65). 1915. D

WALKER, R. M., 713 Grant Building, Atlanta, Ga. (52). D

Walker, Thomas Barlow, President, Board of Directors, Minneapolis City Library, Minneapolis, Minn. (51).

*Walker, William Hultz, Ph. D., Professor of Chemical Engineering, Massachusetts Institute of Technology, Boston, Mass. (53). 1907. C

*Wall, Judson G., 498 1st St., Brooklyn, N. Y. (63). 1913. I

Wall, William E., 1087 West 11th St., Cleveland, Ohio. (63).

*Wallace, Errett, Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (60). 1913. G

*Wallace, George Barclay, M. D., Professor of Pharmacology, University and Bellevue Hospital Medical College, New York, N. Y. (58). 1910. K

Wallace, R. C. E., Purdue University, La Fayette, Ind. (66). M

*WALLER, ELWYN, Ph. D., 7 Franklin Place, Morristown, N. J. (23). 1874. C

Wallerstein, Max, Ph. D., 171 Madison Ave., New York, N. Y. (53). C

Wallgren, Andrew Bennett, M. D., 712 Wood St., Wilkinsburg, Pa. (63). K

*Wallin, J. E. Wallace, Ph. D., Psycho-Educational Clinic, 1520 South Grand Ave., St. Louis, Mo. (57). 1911. H L

Walmsley, Walter Newbold, E. E., São Paulo, Brazil, S. A. (60). D

Walsh, James Joseph, M. D., Ph. D., LL. D., Dean, Fordham Medical School, New York, N. Y. (51). H K L

Walsh, William E., M. D., Morris, Ill. (58). K

Walter, Miss Emma, 343 South 18th St., Philadelphia, Pa. (50). E

*Walter, Herbert Eugene, Ph. D., Assistant Professor of Biology, Brown University, Providence, R. I. (57). 1909. F

Walters, Francis M., Professor of Chemistry and Physiology, State Normal School, Warrensburg, Mo. (64). C K

WALTERS, FRANK, South Sandisfield, Mass. (56). F G H

*Walton, Lee Barker, Ph. D., Professor of Biology, Kenyon College, Gambier, Ohio. (53). 1908. F

Walton, Lyman A., 5737 Woodlawn Ave., Chicago, Ill. (58).

Walton, Richard C., care Ohio Agricultural Experiment Station, Wooster, Ohio. (66). G

Wang, Ching-Chun, Ph. D., Kuei Chiachang, Peking, North China. (65).

Wang, Y. Tsenshan, Hartley Hall, Columbia University, New York, N. Y. (63).

*Wanner, Atreus, Superintendent of Public Schools, 152 East Philadelphia St., York, Pa. (36). 1890. E H

Warbasse, James, 8–19 East Fulton St., Gloversville, N. Y. (54). I

Warbasse, James Peter, M. D., 386 Washington Ave., Brooklyn, N. Y. (60). K

Ward, Charles Howell, 801 Main St., West, Rochester, N. Y. (58). H

WARD, CHARLES WILLIS, Queens, Long Island, N. Y. (57).

Ward, Delancey Walton, Ph. D., 163 Madison Ave., Flushing, Long Island, N. Y. (51). C

Ward, Frank A., 84–102 College Ave., Rochester, N. Y. (40).

*Ward, Freeman, Ph. D., Department of Geology, University of South Dakota, Vermilion, S. D. (64). 1915. E

*Ward, Henry Baldwin, Ph. D., Professor of Zoology, University of Illinois, Urbana, Ill. (48). 1899. F K

*Ward, Henry Levi, Director, Milwaukee Public Museum, Milwaukee, Wis. (51). 1906. **E F H**

Ward, J. Langdon, 16 Exchange Place, New York, N. Y. (29). **I**

*Ward, Richard Halsted, M. D., 53 Fourth St., Troy, N. Y. (17). 1874. **G**

*Ward, Robert De Courcy, Professor of Climatology, Harvard University, Cambridge, Mass. (58). 1910. **E**

Ward, Willard Parker, E. M., Ph. D., 158 West 58th St., New York, N. Y. (50). **D E**

Warden, Carl C., M. D., Ann Arbor, Mich. (58). **H K**

*Wardle, Harriet Newell, Academy of Natural Sciences, Philadelphia, Pa. (47). 1911. **E H**

Wardwell, Mary Margaretta, 505 Ashland Ave., Buffalo, N. Y. (60). **A**

WARE, LEWIS SHARPE, 54 rue de la Bienfaisance, Paris, France. (62). **C G**

Ware, Miss Mary Lee, 41 Brimmer St., Boston, Mass. (47).

*Warfield, Frederic Parkman, 2 Rector St., New York, N. Y. (60).

Waring, C. A., 580 McAllister St., San Francisco, Cal. (65).

Waring, Tracy Dickey, E. E., Superintendent, Standard Underground Cable Co., Perth Amboy, N. J. (60). **D**

Waring, William George, Webb City, Mo. (58). **B C E**

*WARNER, JAMES D., 463 East 26th St., Flatbush, Brooklyn, N. Y. (18). 1874. **A B**

Warner, Joseph De Witt, U. S. Forest Service, Kalispell, Montana. (66). **M**

*Warner, Mrs. Murray, 2590 Green St., San Francisco, Cal. (62). 1913.

*Warner, Worcester Reed, Tarrytown, N. Y. (33). 1888. **A B D**

Warren, Edward Royal, 20 West Caramillo St., Colorado Springs, Colo. (57). **F**

*Warren, George Frederick, Ph. D., Professor of Farm Crops, Cornell University, Ithaca, N. Y. (52). 1911. **G M**

Warren, Homer S., M. D., 103 State St., Chicago, Ill. (58). **K**

*Warren, Howard Crosby, Professor of Psychology, Princeton University, Princeton, N. J. (46). 1901. **H**

*Warren, Joseph Weatherhead, M. D., Department of Health, Harrisburg, Pa. (31). 1886. **K**

*Warren, Mortimer, M. D., Pathological Laboratory, Roosevelt Hospital, New York, N. Y. (60). 1915. **K**

*Warren, William Homer, Ph. D., Professor of Chemistry, Wheaton College, Norton, Mass. (58). 1911. **C K**

Warren, William R., 68 William St., New York, N. Y. (49).

Warrington, George H., Citizens Bank Building, Cincinnati, Ohio. (63).

Warrington, James M., E. E., 617 South Grand Ave., Los Angeles, Cal. (34). **D**

Warth, Albin H., 46 Smith Terrace, Stapleton, L. I., N. Y. (58). **C**

Warthorst, Frank W., R. D. 2, Box 7, Bakersfield, Cal. (65).

Washburn, Hon. Charles Grenfill, 28 Union St., Worcester, Mass. (54).

*Washburn, Edward Wight, Ph. D., Professor of Physical Chemistry, University of Illinois, Urbana, Ill. (60). 1911. **C**

Washburn, Frank Sherman, C. E., American Cyanamid Co., 528 Ellicott Square, Buffalo, N. Y. (60). **D**

*Washburn, Frederic Leonard, State Entomologist and Professor of Entomology, University of Minnesota, Minneapolis, Minn. (51). 1906. **F**

Washburn, Hon. William Sherman, 33d and Rittenhouse Sts., Washington, D. C. (62).

*Washburne, Alva Courtenay, Assistant Actuary, Berkshire Life Insurance Co., Pittsfield, Mass. (54). 1907. **A**

*Washburne, Chester Wesley, care S. H. Ball, 71 Broadway, New York, N. Y. (62). 1915. **D E**

*Washington, Henry Stephens, Ph. D., Consulting Geologist and Chemist, 95 Liberty St., New York, N. Y. (44). 1897. **C E**

Wastenays, Hardolph, Rockefeller Institute for Medical Research, New York, N. Y. (63). 1914. **K**

*Waterman, Frank Allan, Ph. D., Professor of Physics, Smith College, Northampton, Mass. (54). 1906. **B**

Waterman, Frank N., M. E., 100 Broadway, New York, N. Y. (65). **D**

Waterman, Warren Gookin, Professor of Physics and Geology, Fisk University, Nashville, Tenn. (53). **B E L**

*Waters, Campbell E., Ph. D., Bureau of Standards, Washington, D. C. (52). 1906. **C**

Waters, Henry J., Secretary, Kansas State Agricultural College, Manhattan, Kans. (66). **M**

*Waters, Theodore, Bible House, New York, N. Y. (54). 1915. **I**

Watjen, Louis, 68 Broad St., New York, N. Y. (57).

*Watkins, Oscar S., Agricultural Experiment Station, Urbana, Ill. (58). 1911. **C G**

Watkins, Willard H., 622 Linwood Ave., Buffalo, N. Y. (58). **C**

Watson, Arthur Eugene, Ph. D., Assistant Professor of Physics, Brown University, Providence, R. I. (62). **B**

*Watson, Benjamin Marston, Plymouth, Mass. (50). 1911. **G**

Watson, Miss Caroline A., North Andover, Mass. (31). **D**

*Watson, Floyd Rowe, Ph. D., Assistant Professor of Physics, University of Illinois, Urbana, Ill. (58). 1909. **B L**

Watson, Frank Elbert, Hobart College, Geneva, N. Y. (51). **F**

Watson, John W., Virginia Polytechnic Institute, Blacksburg, Va. (64). **C**

*Watson, Joseph Ralph, Professor of Entomology, University of Florida, Gainesville, Fla. (50). 1915. **F**

*Watson, Lawrence Orr, South Carolina Agricultural Experiment Station, Clemson College, S. C. (63). 1915. **G**

*Watson, Thomas Augustus, East Braintree, Mass. (42). 1906. **E F L**

*Watson, Thomas Leonard, Ph. D., Director, Va. Geological Survey and Professor of Economic Geology, University of Virginia, Charlottesville, Va. (60). 1910. **E**

*WATSON, WILLIAM, Ph. D., Secretary, American Academy of Arts and Sciences, 107 Marlborough St., Boston, Mass. (12). 1884. **A**

Watters, Daniel M., E. M., 2557 11th Ave., West, Seattle, Wash. (60). **D**

Watts, Rowland, 3315 Powhatan Ave., "Mont Alto," Baltimore, Md. (58). **A B D E F G H**

Waugh, James Church, 5012 12th Ave., N. E., Seattle, Wash. (52).

Waugh, Karl Tinsley, Ph. D., 1106 Bushnell St., Beloit, Wis. (62). **H**

Way, Pennock M., 1906 Sansom St., Philadelphia, Pa. (66). **C F**

WAYLAND, CHARLES A., M. D., 140 North 3d St., San José, Cal. (58). **K**

*Wead, Charles Kasson, U. S. Patent Office, Washington, D. C. (47). 1898. **B**

Weaver, Charles E., University of Washington, Seattle, Washington. (66).

*Weaver, Edwin Oscar, Professor of Physics, Wittenberg College, Springfield, Ohio. (51). 1911. **B**

*Weaver, George Howitt, M. D., 629 South Wood St., Chicago, Ill. (58). 1911. **H K**

*Weaver, John Ernst, University of Minnesota, Minneapolis, Minn. (64). 1915. **G**

Weaver, Leon Howard Alexander, Menlo Park, Cal. (66). **A B C D I**

Weaver, W. I., Turlock, Cal. (65).

Webb, Gerald B., M. D., 1222 North Cascade Ave., Colorado Springs, Colo. (60). **K**

Webb, Harrison Emmett, 12 Irving Place, Summit, N. J. (60). **A**

Webb, Lewis Warrington, E. E., Master Electrician, Navy Yard, Norfolk, Va. (60). **D**

Webb, William Snyder, Professor of Chemistry, State University of Kentucky, Lexington, Ky. (66). **B C**

Webber, G. E., M. D., Morland, Kans. (60). **K**

*Webber, Herbert John, Ph. D., Director, Citrus Experiment Station, Riverside, Cal. (47). 1900. **G M**

Webber, Samuel Gilbert, M. D., 60 Gorham Ave., Brookline, Mass. (60). **K**

Weber, Dr. A. William, 2207 East 85th St., Cleveland, Ohio. (63).

Weber, Arthur L., 2514 Prairie Ave., Chicago, Ill. (58).

Weber, George Adam, C. E., M. E., 71 Courtland Ave., Stamford, Conn. (58). **D**

Weber, Raxley Ferrin, 561 West 58th St., New York, N. Y. (57). **C**

Webster, Mrs. A. G., 2 Walnut St., Boston, Mass. (60).

Webster, Albert Lowry, C. E., 80 Maiden Lane, New York, N. Y. (50). **C D**

*Webster, Arthur Gordon, Sc. D., Ph. D., LL. D., Professor of Physics, Clark University, Worcester, Mass. (47). 1898. **A B**

Webster, Clement Lyon, E. M., 111 Hawkins Ave., Charles City, Iowa. (58). **D E H**

Webster, David Locke, Ph. D., Jefferson Physical Laboratory, Cambridge, Mass. (60). **B**

Webster, Ed. H., 1026 Walker Ave., Oakland, Cal. (66). **M**

Webster, Edgar Huidekoper, Professor of Physical Science, Atlanta University, Atlanta, Ga. (50). **B C E**

Webster, Edgar M., M. D., 9139 Commercial Ave., Chicago, Ill. (60). **K**

Webster, Edwin Harrison, Kansas State Agricultural College, Manhattan, Kans. (62).

*Webster, Prof. Francis Marion, U. S. Department of Agriculture, Washington, D. C. (35). 1890. **F**

Webster, Frederic Smith, Newsboys' Home, Grant and Webster Aves., Pittsburgh, Pa. (51). **E F H**

*Webster, Hutton, Ph. D., Professor of Social Anthropology, University of Nebraska, Lincoln, Nebr. (62). 1913. **H**

*Webster, John Clarence, M. D., 920 Monroe Building, Chicago, Ill. (50). 1911. **K**

*Webster, Ralph Waldo, M. D., Ph. D., Assistant Professor of Therapeutics, Rush Medical College, Chicago, Ill. (57). 1911. **C K**

*Webster, Robert Lorenzo, Assistant Chief in Entomology, Iowa Agricultural Experiment Station, Ames, Iowa. (58). 1914. **F**

Weckel, Miss Ada Louise, 129 South Grove Ave., Oak Park, Ill. (58). **F G**

Wedderburn, J. H. McLagan, 150 Mercer St., Princeton, N. J. (63).

Wedel, Peter John, Professor of Science, Bethel College, Newton, Kans. (63).

Wedelstaedt, Dr. E. K., New York Life Building, St. Paul, Minn. (66).

Weed, Alfred Cleveland, North Rose, N. Y. (62). **F**

Weed, Benjamin, 2024 Durant Ave., Berkeley, Cal. (65).

*Weed, Clarence Moores, Sc. D , State Normal School, Lowell, Mass. (38). 1890. **F**

Weed, George Marston, 40 Central St., Boston, Mass. (54). **I**

Weed, Henry T., Head, Science Department, Manual Training High School, Brooklyn, N. Y. (54). **B C**

*Weed, Howard Evarts, Beaverton, Ore. (58). 1914. **F**

Weed, James Murray, E. E., 72 Northumberland Road, Pittsfield, Mass. (65). **D**

Weed, Lewis Hill, M. D., Anatomical Laboratory, Johns Hopkins Medical School, Baltimore, Md. (61). **K**

*Weed, Walter Harvey, E. M., 29 Broadway, New York, N. Y. (52). 1903. **E**

Weeks, Edwin Ruthven, E. E., 3408 Harrison St., Kansas City, Mo. (50). **A B L**

*Weeks, Fred Boughton, 5975 Keith Ave., Oakland, Cal. (58). 1910. **E**

Weeks, John Elmer, M. D., 46 East 57th St., New York, N. Y. (60). **K**

*Weeks, Rufus Wells, 346 Broadway, New York, N. Y. (54). 1906. **A I**

*Weems, Julius Buel, Ph. D., South Boston, Va. (44). 1900. **C**

Weems, Mason Locke, Professor of Botany and Physiology, Valparaiso University, Valparaiso, Ind. (52). **G K**

Weese, Asa Orrin, Associate Professor of Biology, University of New Mexico, Albuquerque, N. M. (64). **F**

Wegefarth, Paul, M. D., 322 Granger Building, San Diego, Cal. (65). **K**
Wehle, Theodore, 59 West 83d St., New York, N. Y. (57). **B C**
Weida, Frank Mark, Department of Mathematics and Science, St. Alban's School, Knoxville, Ill. (63). **A D**
*Weida, George Francis, Ph. D., Professor of Physics and Chemistry, Kenyon College, Gambier, Ohio. (60). 1911. **B C L**
*Weidman, Samuel, Ph. D., Wisconsin Geological and Natural History Survey, Madison, Wis. (53). 1906. **E**
Weightman, Charles H., 5859 Michigan Ave., Chicago, Ill. (60). **A**
*Weil, Richard, M. D., 970 Park Ave., New York, N. Y. (58). 1911. **C K**
Weimer, Edgar A., M. E., Superintendent, Weimer Machine Works Co., Lebanon, Pa. (51). **D**
Weinberg, Semen G., M. E., Kirpitchny 1, Petrograd, Russia. (60). **D**
Weinberger, William, M. D., 252 Willis Ave., New York, N. Y. (58). **K**
*Weingarten, Frederick Seymour, M. D., Ph. D., 28 West 91st St., New York, N. Y. (57). 1911. **K**
*Weinrich, Morris Francis, Ph. D., Department of Physics, Columbia University, New York, N. Y. (60). 1915. **A B**
Weinstock, Harris, 19 Presidio Terrace, San Francisco, Cal. (65).
*Weinzirl, John, Ph. D., Professor of Bacteriology, University of Washington, Seattle, Wash. (45). 1906. **G**
Weir, James Robert, Ph. D., Laboratory of Forest Pathology, Missoula, Mont. (65). **M**
Weir, John B., 224 West Monument St., Baltimore, Md. (62).
*Weir, Samuel, Ph. D., Dakota Wesleyan University, Mitchell, S. D. (60). 1915. **L**
*Weis, Joseph Deutsch, M. D., Professor of Tropical Medicine, Tulane University, New Orleans, La. (54). 1911. **K**
*Weiss, Albert Paul, Department of Psychology, Ohio State University, Columbus, Ohio. (63). 1914. **F H L**
*Weiss, John Morris, Barrett Manufacturing Co., Hudson Heights, N. J. (58). 1911. **C**
Weissmann, Frederick W., 2900 Vine St., Cincinnati, Ohio. (60). **K**
Weitling, William W., College Point, N. Y. (65).
Welch, Leander W., Department of Science, Polytechnic High School, Long Beach, Cal. (65).
*Welch, William Henry, M. D., LL. D., Professor of Pathology, Johns Hopkins University, Baltimore, Md. (47). 1900. **H K**
Weld, Fred. C., 65 Merrimack St., Lowell, Mass. (58). **C**
*Weld, Harry Porter, Assistant Professor of Psychology, Cornell University Ithaca, N. Y. (63). 1914. **H**
Weld, Ivan C., 1116 Connecticut Ave., Washington, D. C. (66). **M**
*Weld, Laenas Gifford, LL. D., Arcade Building, Pullman, Chicago, Ill. (41). 1895. **A**
*Weld, Lewis Hart, Evanston Academy, Evanston, Ill. (58). 1913. **F G**
*Welin, John Eric, Professor of Physics and Chemistry, Bethany College, Lindsborg, Kans. (50). 1911. **B C**

*Welker, William Henry, Ph. D., University of Illinois College of Medicine, Chicago, Ill. (55). 1911. C

*Weller, Stuart, Ph. D., Associate Professor of Paleontologic Geology, University of Chicago, Chicago, Ill. (54). 1906. E F

Welles, Francis R., 92 Avenue Henri Martin, Paris, France. (60). D

Wellington, Richard, University Farm, St. Paul, Minn. (65). G

*Wellisch, Edward M., Assistant Professor of Physics, Yale University, New Haven, Conn. (62). 1914. B

Wells, Frederick Latimer, M. E., 101 South Clinton St., Chicago, Ill. (58). D

*Wells, Frederic Lyman, Ph. D., McLean Hospital, Waverly, Mass. (54). 1914. H K

Wells, George R., Ph. D., Associate Professor of Psychology, Oberlin College, Oberlin, Ohio. (66). H

*Wells, H. Edward, Ph. D., Washington and Jefferson College, Washington, Pa. (54). 1911. C

*Wells, Harry Gideon, M. D., Ph. D., Professor of Pathology, University of Chicago, Chicago, Ill. (57). 1910. K

*Wells, Morris Miller, Department of Zoology, University of Chicago, Chicago, Ill. (63). 1915. F

Wells, Philip P., Meriden Road, Middletown, Conn. (66). M

Wells, Prof. William E., 225 Alvarado St., Redlands, Cal. (60). B E G

WELSH, FRANCIS RALSTON, 109 South 4th St., Philadelphia, Pa. (51).

Welsh, Lilian, M. D., Professor of Physiology and Hygiene, Goucher College, Baltimore, Md. (60). K

Welsh, Thomas Whitney Benson, Department of Chemistry, Cornell University, Ithaca, N. Y. (61). C

Wendling, George Reuben, LL. D., Charles Town, W. Va. (52). I

Weniger, Willibald, Ph. D., Nela Research Laboratory, Nela Park, Cleveland, Ohio. (62). B

*Wenner, Frank, Ph. D., Bureau of Standards, Washington, D. C. (54). 1911. B

Wenrich, Calvin N., Assistant Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. (63). B

Wenrich, David Henry, 32 College House, Cambridge, Mass. (63).

*Wentworth, Edward Norris, Professor of Animal Breeding, Kansas State Agricultural College, Manhattan, Kans. (63). 1915. F

Wentworth, Irving Houghton, E. M., Apartado No. 16, Matehuala, S. L. P., Mex. (54). D

Wentworth, Walter V., Great Works, Me. (60). C

*Werber, Dr. Ernest I., Princeton University, Princeton, N. J. (63). 1915. F K

Werfield, W. H., 2625 Telegraph Ave., Oakland, Cal. (65).

Wesbrook, Donald McDermid, M. E., 319 North 23d Ave., West, Duluth, Minn. (64). D

*Wesbrook, Frank Fairchild, M. D., LL. D., President, University of British Columbia, Vancouver, B. C., Canada. (54). 1906. **K**

Wescott, William Burton, 9 Harcourt St., Boston, Mass. (66). **B D**

Wescott, William Carter, M. D., Pacific and Delaware Aves., Atlantic City, N. J. (58). **C K**

Wesener, John A., M. D., 31 North State St., Chicago, Ill. (58). **C**

*Wesson, David, care Southern Cotton Oil Co. of Great Britain, Ltd., Trafford Park, Manchester, England. (50). 1911. **C**

West, Paul Ashley, Medical Department, Johns Hopkins University, Baltimore, Md. (63). **C F**

West, Rodney Mott, 2141 Doswell Ave., St. Paul, Minn. (60). **C**

West, Thomas Dyson, The West Steel Casting Co., Cleveland, Ohio. (51). **D**

Westerman, P. B., Oakdale, Cal. (61).

Westervelt, William D., Honolulu, Hawaii. (66).

Westervelt, William Young, E. M., 17 Madison Square, East, New York, N. Y. (60). **D**

*Westfall, W. D. A., Ph. D., Assistant Professor of Mathematics, University of Missouri, Columbia, Mo. (60). 1911. **A**

Westgate, John Minton, Hawaii Agricultural Experiment Station, Honolulu, Hawaii. (63).

*Westgate, Lewis Gardner, Ph. D., Professor of Geology, Ohio Wesleyan University, Delaware, Ohio. (51). 1906. **E**

Westinghouse, Henry Herman, M. E., 165 Broadway, New York, N. Y. (51). **D**

Weston, David Brainard, Sharon, Mass. (57). **C D**

*Weston, Edward, Sc. D., LL. D., Waverley Park, Newark, N. J. (33). 1887. **B C D**

Weston, William Henry, Jr., Department of Biology, Western Reserve University, Cleveland, Ohio. (65). **G**

Westover, Harvey L., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (65). **G M**

Wetherill, Henry Emerson, M. D., P. O. Box 153, Drexel Hill, Pa. (53). **K**

*Wetzel, Reinhard A., College of the City of New York, New York, N. Y. (53). 1915. **A B**

*Weymouth, Frank Walter, Department of Physiology, Leland Stanford Junior University, Stanford University, Cal. (62). 1915. **H**

Weymouth, Thomas Rote, M. E., United Natural Gas Co., 206 Seneca St., Oil City, Pa. (63). **D**

*Weysse, Arthur Wisswald, M. D., Ph. D., Professor of Biology, Boston University, Boston, Mass. (52). 1905. **F K**

Whealdon, Albert D., Professor of Chemistry, State Normal School, Superior, Wis. (61). **C**

*Wheatland, Marcus Fitzherbert, M. D., LL. D., 84 John St., Newport, R. I. (51). 1913. **H K**

Wheelan, Fairfax Henry, University Club, San Francisco, Cal. (65).

*Wheeler, Alvin Sawyer, Ph. D., Associate Professor of Chemistry, University of North Carolina, Chapel Hill, N. C. (50). 1901. C

Wheeler, Benjamin Ide, Ph. D., LL. D., President, University of California, Berkeley, Cal. (65). I L M

Wheeler, Charles A., Professor of Mathematics, Connecticut Agricultural College, Storrs, Conn. (61). A M

Wheeler, Clark S., Department of Farm Crops, College of Agriculture, Columbus, Ohio. (66). M

Wheeler, Henry Clyde, Associate Professor of Soil Physics, Agricultural Experiment Station, Urbana, Ill. (64). G

Wheeler, Herbert Locke, D. D. S., 560 5th Ave., New York, N. Y. (57). K

*Wheeler, Homer Jay, Ph. D., American Agricultural Chemical Co., Boston, Mass. (54). 1909. C E M

*Wheeler, Lynde Phelps, Ph. D., Assistant Professor of Physics, Yale University, New Haven, Conn. (60). 1910. B

Wheeler, Ruth, Ph. D., 908 West Nevada St., Urbana, Ill. (58). C L

*Wheeler, William Morton, Ph. D., Professor of Economic Entomology, Bussey Institution, Forest Hills, Boston, Mass. (50). 1901. F H

Wheelock, Raymond P., E. M., care Enterprise Mine, P. O. Box 125, Kingman, Ariz. (58). D

WHEELOCK, WILLIAM E., M. D., Morristown, N. J. (57). K

Wheelwright, William Dana, Portland, Oregon. (57). A I

*WHELPLEY, HENRY MILTON, M. D., 2342 Albion Place, St. Louis, Mo. (52). 1913. H K

Whelpley, James Davenport, Cosmos Club, Washington, D. C. (52). I

*Wherry, Edgar Theodore, Ph. D., U. S. National Museum, Washington, D. C. (57). 1911. C E

*Wherry, William Buchanan, M. D., City Hospital, Cincinnati, Ohio. (63). 1915. K

*Whetzel, Herbert Hice, Professor of Plant Pathology, New York State College of Agriculture, Ithaca, N. Y. (56). 1908. G

*Whipple, George Chandler, C. E., Professor of Sanitary Engineering, Harvard University, Cambridge, Mass. (54). 1906. C D

*Whipple, George Hoyt, M. D., Director Hooper Institute, San Francisco, Cal. (60). 1911. F K

*Whipple, Guy Montrose, Ph. D., University of Illinois, Urbana, Ill. (58). 1912. H L

*Whitaker, Milton C., Professor of Industrial and Engineering Chemistry, Columbia University, New York, N. Y. (64). 1915. C

Whitbeck, John F. W., M. D., 781 Park Ave., Rochester, N. Y. (60). K

Whitcomb, W. O., Montana Agricultural Experiment Station, Bozeman, Mont. (66). M

Whitcomb, William Henry, Professor of Chemistry, Miami University, Oxford, Ohio. (58). C

White, Benjamin, Ph. D., Research and Antitoxin Laboratories, Otisville, N. Y. (63). K

*White, David, Chief Geologist, U. S. Geological Survey, Washington, D. C. (40). 1892. **E G**

White, Edith Grace, 77 Brighton Ave., Allston, Mass. (66). **F**

White, Edward Woodman, Sardis, B. C., Canada. (63). **G**

White, G. C., Professor of Dairy Husbandry, Connecticut Agricultural Experiment Station, Storrs, Conn. (66). **M**

White, Goodrich Cook, Professor of Mental and Moral Science, Emory College, Oxford, Ga. (65). **H I L**

White, Harry Oscar, M. D., Professor of Anatomy, University of Southern California, Los Angeles, Cal. (63). **K**

*White, Henry Clay, Sc. D., Ph. D., LL. D., Professor of Chemistry, University of Georgia, Athens, Ga. (29). 1885. **C**

White, Henry K., Catonsville, Md. (63).

*White, Henry Seely, Ph. D., Professor of Mathematics, Vassar College, Poughkeepsie, N. Y. (58). 1909. **A**

*White, Horace, LL. D., Editor, *New York Evening Post*, 18 West 69th St., New York, N. Y. (50). 1901. **I**

*WHITE, ISRAEL C., Ph. D., State Geologist of West Virginia, Morgantown, W. Va. (25). 1882. **E**

White, J. A., Buchanan, Mich. (58). **C**

White, James Herbert, University of Toronto, Toronto, Canada. (62). **G**

White, Jesse Hayes, Professor of Psychology and Education, University of Pittsburgh, Pittsburgh, Pa. (62). **H L**

*White, John, Ph. D., Professor of Chemistry, Rose Polytechnic Institute, Terre Haute, Ind. (58). 1910. **C**

White, Laura Bradstreet, 29 Wallingford Road, Brighton, Mass. (60). **C**

White, Lazarus, C. E., 612 West 137th St., New York, N. Y. (60). **D**

White, Linden G., E. E., General Superintendent, Columbus Railway and Light Co., Columbus, Ohio. (60). **D**

White, Mrs. N. G., 1615 New Hampshire Ave., N. W., Washington, D. C. (52).

White, Orland Emile, Ph. D., Bussey Institution, Forest Hills, Boston, Mass. (61). **G**

White, Oscar W., 1116 F St., N. W., Washington, D. C. (52). **D**

White, Richard J., 10 South St., Baltimore, Md. (60).

White, Stewart Edward, Santa Barbara, Cal. (66). **E M**

White, William E., M. D., Lyons, Wis. (60). **K**

White, William T., 508 Broad St., Knoxville, Tenn. (58). **A C E F G L**

Whiteford, G. H., Professor of Chemistry, Albright College, Myerstown, Pa. (64). **C**

*Whitehead, Richard Henry, M. D., LL. D., Dean, Medical Department, University of Virginia, Charlottesville, Va. (58). 1911. **K**

Whitehill, Alexander R., Ph. D., Professor of Chemistry, West Virginia University, Morgantown, W. Va. (65). **C**

Whitehill, M. H., 12 East Broad St., Richmond, Va. (64).

*Whitehorne, William Risby, Ph. D., Professor of Physics, Bates College, Lewiston, Me. (52). 1911. **B C**

*Whitfield, James Edward, Ph. D., 406 Locust St., Philadelphia, Pa. (44). 1896. **C**

*Whitford, Harry Nichols, Ph. D., Forest Branch, Victoria, B. C., Canada. (54). 1909. **G**

Whiting, Albert Lemuel, Ph. D., 504 East Chalmers St., Champaign, Ill. (63).

Whiting, Charles Allen, M. D., 67 West 49th St., New York, N. Y. (57). **K**

Whiting, Henry Augustus, M. D., The Walbert, Baltimore, Md. (60). **K**

WHITING, PHINEAS W., Ph. D., University of Pennsylvania, Philadelphia, Pa. (65). **F**

*Whiting, Sarah Frances, Sc. D., Director, Whitin Observatory, Wellesley College, Wellesley, Mass. (31). 1883. **A B**

Whitman, Alfred R., Schumacher, Ontario, Canada. (65).

Whitman, E. C., Canso, Nova Scotia, Canada. (60).

*Whitman, Frank Perkins, Sc. D., Professor of Physics, Adelbert College, Cleveland, Ohio. (33). 1885. **A B**

Whitman, Ralph, C. E., U. S. Naval Avademy, Annapolis, Md. (60). **D**

Whitmore, Eugene R., U. S. A., 2349 Ashmead Place, N. W., Washington, D. C. (64). **F K**

Whitmore, Francis E., Curator, Cortland Science Club, Cortland, N. Y. (54).

Whitmore, Harry Gregory, Parnassus, Va. (66). **B C**

Whitmore, Lawrence H., E. M., P. O., Box 163, Bulawayo, Rhodesia, South Africa. (60). **D**

*Whitnall, Harold Orville, Assistant Professor of Mineralogy and Economic Geology, Colgate University, Hamilton, N. Y. (61). 1915. **E**

*Whitney, David Day, Ph. D., Associate Professor of Zoology, Wesleyan University, Middletown, Conn. (60). 1911. **F**

*Whitney, Miss Mary W., 238 Bacon St., Waltham, Mass. (47). 1900. **A**

Whitney, Paul C., U. S. Coast and Geodetic Survey, Washington, D. C. (60). **E**

Whitney, Solon Franklin, 37 Garfield St., Watertown, Mass. (52).

*Whitney, Willis Rodney, Ph. D., Director, Research Laboratory, General Electric Co., Schenectady, N. Y. (63). 1914. **D**

Whitson, Andrew Robinson, Professor of Soils, College of Agriculture, Madison, Wis. (58). **B C M**

Whittaker, Elizabeth Leigh, Professor of Biology, Elmira College, Elmira, N. Y. (65). **F**

*Whittelsey, Theodore, Ph. D., Director, General Laboratories, U. S. Rubber Co., New York, N. Y. (53). 1906. **C**

Whittemore, George W., E. E., 284 New York Ave., Brooklyn, N. Y. (60). **D**

*Whitten, John Charles, Ph. D., Professor of Horticulture, University of Missouri, Columbia, Mo. (63). 1915. **G**

Whitten, John Hamilton, 7111 Normal Ave., Chicago, Ill. (63).

Whittier, Charles T., 78 Brinkerhoff St., Jersey City, N. J. (58). **C**

*Whittier, Frank Nathaniel, M. D., Professor of Pathology and Bacteriology, Bowdoin College, Brunswick, Me. (54). 1911. **K**

Whittlesey, George Patten, 1438 Belmont St., Washington, D. C. (63). **B**

*Wick, Frances Gertrude, Ph. D., Vassar College, Poughkeepsie, N. Y. (60). 1911. **B**

*Wickersham, Judge James, House of Representatives, Washington, D. C. (58). 1913. **H**

Wickes, L. Webster, E. M., 134 Norton Ave., Los Angeles, Cal. (58). **D**

*Wickham, Henry Frederick, Professor of Entomology, State University of Iowa, Iowa City, Iowa. (54). 1908. **F**

Wickhorst, Max H., Engineer of Tests, 254 South Ave., Aurora, Ill. (60). **D**

Wickson, Edward James, Emeritus Professor of Horticulture, University of California, Berkeley, Cal. (66). **G M**

Widtsoe, John Andreas, Ph. D., President, Agricultural College of Utah, Logan, Utah. (60). **C**

Wiedemann, H. Edmund, 1105 Holland Bldg., St. Louis, Mo. (58). **C**

*Wiegand, Karl McKay, Ph. D., Professor of Botany, New York State College of Agriculture, Ithaca, N. Y. (45). 1899. **G M**

*Wieman, Harry Lewis, Ph. D., Department of Zoology, University of Cincinnati, Cincinnati, Ohio. (58). 1913. **F**

Wiener, Alexander C., M. D., 100 State St., Chicago, Ill. (58). **K**

Wiener, Solomon, M. D., 67 West 89th St., New York, N. Y. (60). **K**

Wiggam, Albert Edward, North Vernon, Ind. (63). **F**

Wiggins, Cleo Claude, University of Missouri, Columbia, Mo. (65). **G**

Wigglesworth, Edward, 109 Chestnut St., Boston, Mass. (60).

WIGGLESWORTH, GEORGE, 53 State St., Boston, Mass. (60).

Wight, Ambrose Benson, 316 North Scoville Ave., Oak Park, Ill. (58).

*Wight, William Franklin, U. S. Department of Agriculture, Washington, D. C. (54). 1911. **G**

Wilber, David Truxton, 93 Leroy St., Binghamton, N. Y. (63). **E**

*Wilbert, Martin I., Hygienic Laboratory, 25th and E Sts., N. W., Washington, D. C. (58). 1914. **C**

Wilbour, Mrs. Charlotte B., 40 Central Park, South, New York, N. Y. (28).

*Wilbur, Albert B., Middleton, N. Y. (23). 1874. **E**

*Wilbur, Ray Lyman, M. D., 1201 Bryant St., Palo Alto, Cal. (50). 1901. **F K**

Wilcox, Miss Alice Wilson, Fairbanks Museum of Natural Science, St. Johnsbury, Vt. (64). **F**

*Wilcox, Edwin Mead, Ph. D., Professor of Agricultural Botany, University of Nebraska, Lincoln, Nebr. (50). 1901. **G**

*Wilcox, Guy Maurice, Professor of Physics, Armour Institute of Technology, Chicago, Ill. (53). 1909. **B**

Wilcox, Raymond B., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (64). **G**

Wilcox, Reynold Webb, M. D., LL. D., 679 Madison Ave., New York, N. Y. (60). **K**

*Wilcox, Wendell Garrett, Ph. D., Professor of Chemistry, Alfred University, Alfred, N. Y. (56). 1909. **C**

*Wilczynski, Ernst Julius, Ph. D., Professor of Mathematics, University of Chicago, Chicago, Ill. (60). 1911. **A**

*Wilde, Norman, Ph. D., Washington Court, 51 Brattle St., Cambridge, Mass. (60). 1911. **H**

*Wilder, Burt Green, M. D., Brookline, Mass. (51). 1902. **F**

*Wilder, Frank Alonzo, Southern Gypsum Co., North Holston, Va. (64). 1915. **E**

Wilder, William H., M. D., 5811 Monroe Ave., Chicago, Ill. (58). **K**

Wildman, Edward Embree, 4331 Osage Avenue, Philadelphia, Pa. (57).

Wildman, M. L., Stanford University, Cal. (66).

*Wiley, Harvey Washington, M. D., Ph. D., LL. D., Cosmos Club, Washington, D. C. (21). 1874. **B C H I K L**

Wiley, Walter Howard, E. M., 367 South Bonnie Brae St., Los Angeles, Cal. (60). **D**

*Wiley, William Halstead, C. E., 432 4th Ave., New York, N. Y. (50). 1906. **D E**

Wilkins, Miss Lewanna, 1414 Girard St., Washington, D. C. (52). **F G L**

Wilkinson, Henry B., 520 North Central Ave., Phoenix, Arizona. (65).

*Wilkinson, Levi Washington, Professor of Industrial and Sugar Chemistry, Tulane University, New Orleans, La. (50). 1903. **C**

Wilkinson, W. W., M. D., 144 North 2d Ave., Phoenix, Ariz. (66). **K**

*Willard, Daniel Everett, 312 Northern Pacific Ry., St. Paul, Minn. (62). 1911. **E**

*Willard, Hobart Hurd, Ph. D., 802 Monroe St., Ann Arbor, Mich. (58). 1911. **C**

*Willard, Julius Terrass, Sc. D., Professor of Chemistry, Kansas State Agricultural College, Manhattan, Kans. (50). 1906. **C**

*Willard, William Albert, Professor of Histology and Embryology, University of Nebraska College of Medicine, Omaha, Nebr. (62). 1914. **F K**

*Willcox, Mary Alice, Ph. D., 63 Oakwood Road, Newtonville, Mass. (50). 1901. **F**

*Willcox, Oswin William, Ph. D., 10 Lincoln Ave., Dover, N. J. (58). 1911. **C**

*Willcox, Walter Francis, Ph. D., LL. D., Professor of Economics and Statistics, Cornell University, Ithaca, N. Y. (50). 1901. **I**

Willetts, Elmore A., Belmont, N. Y. (66).

Willetts, Ernest W., M. D., Pathologist to Pennsylvania Hospital, 5101 Liberty Ave., Pittsburgh, Pa. (58). **K**

Williams, Anna Wessels, M. D., 549 Riverside Drive, New York, N. Y. (56). **K**

Williams, Arthur, E. E., Irving Place and 15th St., New York, N. Y. (65). **D**

Williams, Asa Starkweather, Allis-Chalmers-Bullock, Ltd. Montreal, Canada. (62).

Williams, Carlos Grant, Chief, Department of Agronomy, Ohio Agricultural Experiment Station, Wooster, Ohio. (63). **G M**

*Williams, Charles Herbert, M. D., 1069 Boylston St., Boston, Mass. (22). 1874. **B K**

Williams, Charles Mallory, M. D., 48 East 49th St., New York, N. Y. (57). **H K L**

Williams, Charles Whiting, 401 Chamber of Commerce Building, Cleveland, Ohio. (63).

*Williams, Clarke Benedict, Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. (54). 1906. **A**

Williams, Cyrus Vance, Professor of Botany, Nebraska Wesleyan University, Lincoln, Nebr. (62). **G**

*Williams, Edward Higginson, Jr., Sc. D., LL. D., Westerdale, Vt. (25). 1894. **E**

*Williams, Francis Henry, M. D., 505 Beacon St., Boston, Mass. (29). 1890. **K**

*Williams, Francis Xavier, Bussey Institution, Forest Hills, Boston, Mass. (64). 1915. **F**

*Williams, Frank Blair, Ph. D., Professor of Mathematics, Clark University, Worcester, Mass. (53). 1911. **D**

Williams, Frank H., Brownsville, Texas. (50). **E**

Williams, G. C. F., 990 Prospect Ave., Hartford, Conn. (60). **I**

*Williams, Gardner Fred, LL. D., 2201 R St., Washington, D. C. (60). 1915. **D**

*Williams, Guy Yandell, University of Oklahoma, Norman, Okla. (58). 1911. **B C**

Williams, Harvey Daniel, Wallingford, Conn. (62).

Williams, Henry J., C. E., 30 Norfolk Road, Chestnut Hill, Mass. (60). **D**

*Williams, Henry Shaler, Ph. D., Professor of Geology, Cornell University, Ithaca, N. Y. (18). 1882. **E**

Williams, Henry Smith, M. D., LL. D., 120 West 32d St., New York, N. Y. (65). **K**

Williams, Dr. Horatio Burt, 437 West 59th St., New York, N. Y. (63). **K**

*Williams, Ira Abraham, Professor of Ceramics, Oregon School of Mines, Corvallis, Ore. (52). 1908. **D E**

Williams, Ira W., State Capitol, Atlanta, Ga. (65). **G**

Williams, John C., 221 Orchard Ave., Ridgway, Pa. (51). **E G**

Williams, John Edward, Ph. D., Professor of Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. (58). **A**

Williams, John Townsend, E. M., 815 Madison Ave., New York, N. Y. 57). **A C D**

*Williams, John Whitridge, M. D., Sc. D., 1128 Cathedral St., Baltimore, Md. (50). 1901. **K**

Williams, Miss Katharine I., Llandaff House, Pembroke Vale, Clifton, Bristol, England. (58). **C**

Williams, Leon Franklin, Ph. D., Assistant Professor of Chemistry, North Carolina College of A. and M. Arts, West Raleigh, N. C. (58). **C**

*Williams, Mabel Clare, Ph. D., Assistant Professor of Psychology, State University of Iowa, Iowa City, Iowa. (52). 1911. **H L**

*Williams, Merton Yarwood, Ph. D., Victoria Memorial Museum, Ottawa, Canada. (63). 1915. **E**

Williams, Robert Day, P. O. Box 232, Claremont, Cal. (65).

Williams, Roger Butler, 306 North Cayuga St., Ithaca, N. Y. (64).

Williams, Roland H., Teachers College, New York, N. Y. (60). **A C**

Williams, Samuel Robinson, Ph. D., Professor of Physics, Oberlin College, Oberlin, Ohio. (63). **B**

*Williams, Stephen Riggs, Ph. D., Professor of Biology and Geology, Miami University, Oxford, Ohio. (50). 1906. **E F**

Williams, Mrs. Sydney M., Wellesley, Mass. (60).

Williams, Timothy Shaler, Huntington, Long Island, N. Y. (60). **I**

Williams, Thornton R., M. D., Punxsutawney, Pa. (60). **K**

Williams, William Whitridge, M. D., 236 Metropolitan Building, Denver, Colo. (62). **K**

*Williamson, Charles Spencer, Jr., Associate Professor of Chemistry, Tulane University, New Orleans, La. (60). 1915. **C**

*Williamson, Edward Bruce, Bluffton, Ind. (50). 1906. **F**

Williamson, Henry Dale, E. M., Rising Sun Petroleum Co., Yokohama, Japan. (60). **D**

Williamson, Mrs. M. Burton, 2343 Ocean View Ave., Los Angeles, Cal. (44). **F H**

Williamson, Theresa Gertrude, Hannah More Academy, Reisterstown, Md. (58). **C G**

Willing, Thomas Nathaniel, 417 Clarence Ave., Saskatoon, Saskatchewan, Canada. (58). **F**

*Willis, Bailey, Ph. D., Head Professor of Geology, Leland Stanford Junior University, Stanford University, Cal. (36). 1890. **E**

Willis, Miss Mina Augusta, Botany Department, University of Idaho, Moscow, Idaho. (66). **F G**

*Williston, Arthur Lyman, M. E., 27 Kilsyth Road, Brookline, Mass. (51). 1906. **D**

*Williston, Samuel Wendell, M. D., Sc. D., Ph. D., Professor of Paleontology, University of Chicago, Chicago, Ill. (51). 1902. **F K**

*Willoughby, Charles Clark, Assistant Director, Peabody Museum, Cambridge, Mass. (45). 1897. **H**

Willoughby, Levi Philip Ray, Jeffersonville, Ind. (64).

*Wills, Albert Potter, Ph. D., Professor of Mathematical Physics, Columbia University, New York, N. Y. (53). 1906. **A B**

Wills, Joseph Lainson, The Otto J. Stifel Union Brewing Co., Gravois and Michigan Aves., St. Louis, Mo. (50). **B C G**

*Willson, Frederick Newton, C. E., Professor of Graphics, Princeton University Princeton, N. J. (33). 1887. **A D**

Willson, Mortimer, M. D., 6th and Water Sts., Port Huron, Mich. (50). **A F K**

*Willson, Robert Wheeler, Ph. D., Professor of Astronomy, Harvard University, Cambridge, Mass. (30). 1890. **A B**

WILMARTH, MRS. HENRY D., West Boxford, Mass. (40).

*Wilmore, John Jenkins, Dean, School of Engineering, Alabama Polytechnic Institute, Auburn, Ala. (51). 1915. **D**

*Wilson, Charles Branch, Sc. D., Ph. D., Head, Department of Science, State Normal School, Westfield, Mass. (52). 1906. **F**

*Wilson, Delonza Tate, Ph. D., Associate Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio. (53). 1906. **A**

*Wilson, Edmund Beecher, M. D., Sc. D., Ph. D., LL. D., Professor of Zoology, Columbia University, New York, N. Y. (49). 1900. **F**

*Wilson, Edwin Bidwell, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (65). 1915. **A**

*Wilson, Francis Daniel, Ph. D., 13 North Ferry St., Schenectady, N. Y. (57). 1909. **C**

*Wilson, Guy West, State University of Iowa, Iowa City, Iowa. (58). 1911. **G**

*Wilson, H. F., Oregon Experiment Station, Corvallis, Oregon. (65). 1915. **F**

Wilson, H. P., M. D., Whittier, Cal. (60). **K**

*Wilson, Harold Albert, Sc. D., Professor of Physics, The Rice Institute, Houston, Texas. (61). 1911. **B**

*Wilson, Henry Van Peters, Ph. D., Professor of Zoology, University of North Carolina, Chapel Hill, N. C. (50). 1901. **F**

Wilson, Herrick East, 224 West College St., Oberlin, Ohio. (63). **E**

*WILSON, J. HOWARD, Castine, Me. (57). 1913. **E H**

*Wilson, James Meredith, 2nd National Bank Building, Washington, D. C. (58). 1913. **C F**

Wilson, John C., Cosmos Club, Washington, D. C. (49). **I**

*Wilson, John Gordon, M. D., Professor of Otology, Northwestern University Medical College, Chicago, Ill. (58). 1908. **F K**

*WILSON, LOUIS BLANCHARD, M. D., St. Mary's Hospital, Rochester, Minn. (62). 1913. **K**

Wilson, M. S., Burlingame, Cal. (65).

Wilson, Prof. Margaret B., Hunter College of New York, New York, N. Y. (57). **H K**

*Wilson, Norman Richard, Ph. D., Professor of Mathematics, University of Manitoba, Winnipeg, Canada. (55). 1907. **A**

Wilson, Robert, Jr., M. D., 165 Rutledge Ave., Charleston, S. C. (60). **K**

*Wilson, Robert N., Stand Off, Alberta, Canada. (42). 1895. **H**

*Wilson, Robert North, Assistant Professor of Chemistry, Trinity College, Durham, N. C. (60). 1911. **C**

Wilson, W. E., Washington State Normal School, Ellensburg, Wash. (66).

*Wilson, William Powell, Sc. D., Director, Philadelphia Museums, Philadelphia, Pa. (38). 1889. **G**

Wily, James Hunter, E. E., Assistant Professor of Physics, Lehigh University, South Bethlehem, Pa. (60). **B D**

Wimpfheimer, Charles A., 450–460 Fourth Ave. New York, N. Y. (57).
*Winchell, Alexander Newton, Sc. D., Professor of Mineralogy and Petrology, University of Wisconsin, Madison, Wis. (50). 1904. **C E**
*Winchell, Horace Vaughn, E. M., 505 Palace Building, Minneapolis, Minn. (34). 1890. **C E**
Winchester, Dean E., U. S. Geological Survey, Washington, D. C. (63). **E**
*WINCHESTER, GEORGE, Professor of Physics, Washington and Jefferson College, Washington, Pa. (63). 1915. **B**
Windesheim, Gustave, M. D., 303 Main St., Kenosha, Wis. (51). **H K**
Wing, Asa Shove, "Wingwood," Moorestown, N. J. (65).
Wing, Henry Hiram, Professor of Animal Husbandry, Cornell University, Ithaca, N. Y. (56). **F**
Wingerter, Charles A., M. D., 75 Twelfth St., Wheeling, W. Va. (60). **K**
Winkenwerder, Hugo, Professor of Forestry, University of Washington, Seattle, Wash. (64). **G M**
*Winne, Charles Knickerbocker, Jr., M. D., 222 Lark St., Albany, N. Y. (60). 1911. **K**
*Winslow, Charles Edward Amory, Professor of Public Health, Yale Medical School, New Haven, Conn. (51). 1903. **F K**
Winslow, Mrs. C. E. A., 411 West 114th St., New York, N. Y. (52). **F**
*Winslow, Guy Monroe, Ph. D., Principal, Lasell Seminary, Auburndale, Mass. (58). 1911. **F K L**
Winslow, William Herman, P. O. Box 803, Chicago, Ill. (65).
Winsor, L. M., 155 East 6th South St., Salt Lake City, Utah. (66). **M**
Winston, Isaac, Room 403, Custom House, New York, N. Y. (55). **A**
Winston, John Robinson, Hood River Agricultural Substation, Hood River, Oregon. (63). **G**
*Winterhalter, Adm. A. G., U. S. N., U. S. S. Saratoga, Asiatic Station, care Postmaster, San Francisco, Cal. (37). 1893. **A**
Winterhalter, Wilhelm Karl, Hearst Building, San Francisco, Cal. (63). **G**
*Winternitz, Milton C., M. D., Johns Hopkins Hospital, Baltimore, Md. (62). 1915. **K**
Winters, R. Y., North Carolina Agricultural Experiment Station, West Raleigh, N. C. (66). **M**
Winton, Hortense Tucker, The Rice Institute, Houston, Texas. (63). **F G**
Winton, Mrs. Kate Barber, Ph. D., Westport, Conn. (60). **C**
Winton, Will McClain, Professor of Biology, The Rice Institute, Houston, Texas. (58). **E F G**
Wintringham, J. P., E. E., 153 Henry St., Brooklyn, N. Y. (60). **B E F**
WIRTNER, REV. M., Nicktown, Pa. (58). **F**
*Wissler, Clark, Ph. D., Curator of Anthropology, American Museum of Natural History, New York, N. Y. (54). 1906. **H**
*Withers, William Alphonso, Professor of Chemistry, North Carolina College of Agriculture and Mechanic Arts, Raleigh, N. C. (33). 1891. **C**
*Witherspoon, Thomas Casey, M. D., 307 West Granite St., Butte, Mont. (58). 1913. **K**
Withington, David L., Honolulu, Hawaii. (66).

*Withrow, James Renwick, Ph. D., Professor of Chemistry, Ohio State University, Columbus, Ohio. (60). 1910. C

Witmer, Joseph Franklin, C. E., Chapin Block, Buffalo, N. Y. (60). D

*Witmer, Lightner, Ph. D., Professor of Psychology, University of Pennsylvania, Philadelphia, Pa. (46). 1905. H L

*Witmer, Luther F., 2923 Macomb St., Washington, D. C. (60). 1914. C

Witte, Max Ernst, M. D., Superintendent, Clarinda State Hospital, Clarinda, Iowa. (51). H K

*Witthaus, Rudolph August, M. D., 2039 Broadway, New York, N. Y. (35). 1890. C K

Wixford, John F., 2223 North Ninth St., St. Louis, Mo. (58). D

Wobus, Reinhard E., M. D., 2406 Kings Highway, N. E., St. Louis, Mo. (60). K

*Wodsedalek, Jerry Edward, Ph. D., Department of Zoology, University of Idaho, Moscow, Idaho. (63). 1915. F

*Woelfel, Albert, M. D., Department of Physiology, University of Chicago, Chicago, Ill. (54). 1910. K

*Woglum, Russell Sage, 150 South Holliston Ave., Pasadena, Cal. (54). 1914. F

*Woglum, William H., M. D., Assistant Professor of Physiology and Experimental Medicine, Columbia University, New York, N. Y. (65). 1915. K

*Wolcott, Edson Ray, 232 North Carondelet St., Los Angeles, Cal. (54). 1907. B C D

Wolcott, George N., Insular Experiment Station, Rio Piedras, Porto Rico, C. A. (65). F M

*Wolcott, Robert Henry, M. D., Head, Department of Zoology, University of Nebraska, Lincoln, Nebr. (60). 1911. F K

Wolcott, William Prescott, Readville, Mass. (60).

*Wolf, Frederick Adolph, Ph. D., Professor of Plant Pathology, Alabama Polytechnic Institute, Auburn, Ala. (60). 1913. G

*Wolf, Harry John, E. M., Professor of Mining, Colorado School of Mines, Golden, Colo. (64). 1915. D

Wolfe, Elmer Ellsworth, Ph. D., 219 North Fairmount St., East Liberty, Pittsburgh, Pa. (51). B C L

Wolfe, Harold E., 18 Forest Ave., Vermilion, S. D. (66).

*Wolff, Frank Alfred, Ph. D., Bureau of Standards, Washington, D. C. (47). 1900. B

Wolff, Henry Albert, M. D., 300 Hammond St., Chestnut Hill, Boston, Mass. (57). K

*Wolff, John Eliot, Ph. D., University Museum, Cambridge, Mass. (36). 1894. E

Wolff, Mark A., E. M., Salisbury House, London, E. C., England. (60). D

Woll, Frederic A., Ph. D., College of the City of New York, New York, N. Y. (63). K

*Woll, Fritz Wilhelm, Ph. D., Professor of Animal Nutrition, University Farm, Davis, Cal. (42). 1897. C

Wolverton, Byron C., E. E., care Friendship Telephone Co., Syracuse, N. Y. (50). D

Wood, A. E., Department of Science, State Normal School, Florence, Ala. (61). L

*Wood, Casey Albert, M. D., President, American Academy of Medicine, 7 West Madison St., Chicago, Ill. (56). 1911. F K

Wood, Mrs. Cynthia A., 117 West 58th St., New York, N. Y. (43).

Wood, D. R., 269 South 12th St., San José, Cal. (65).

Wood, Miss Elvira, 2 Chamberlain Terrace, Waltham, Mass. (47). E

*Wood, Francis Carter, M. D., Professor of Chemical Pathology, Columbia University, New York, N. Y. (57). 1908. K

*Wood, Harry O., Hawaiian Volcano Observatory, Volcano House, Hawaii. (65). 1915. A B

Wood, Henry A. Wise, 25 Madison Ave., New York, N. Y. (57). D

*Wood, Horatio C., Jr., M. D., 434 South 44th St., Philadelphia, Pa. (58). 1911. K

Wood, Col. M. W., U. S. A., Boise, Idaho. (66). M

*Wood, Thomas Denison, M. D., Professor of Physical Education, Teachers College, Columbia University, New York, N. Y. (51). 1902. K

Wood, Walter, E. M., 400 Chestnut St., Philadelphia, Pa. (33). F I

Wood, Walter Hallock, R. F. D. 1, Salem, Ohio. (58). A

Woodard, John, Ohio Agricultural Experiment Station, Wooster, Ohio. (64). G

Woodard, Silas H., C. E., 7 East 42d St., New York, N. Y. (60). D

*Woodbridge, Frederick James Eugene, LL. D., Professor of Philosophy, Columbia University, New York, N. Y. (52). 1905. H

Woodbury, Charles Goodrich, Professor of Horticulture, Agricultural Experiment Station, La Fayette, Ind. (63). G

*Woodbury, Charles Jeptha Hill, Sc. D., E. E., 45 Milk St., Boston, Mass. (29). 1884. B D

*Woodhull, John Francis, Ph. D., Professor of Physical Science, Columbia University, New York, N. Y. (43). 1899. B L

Woodhull, Gen. Maxwell Van Zandt, U. S. A., 2033 G St. N. W., Washington, D. C. (52).

*Woodman, Alpheus Grant, Massachusetts Institute of Technology, Boston, Mass. (60). 1911. C

*Woodman, Joseph Edmund, Sc. D., Professor of Geology and Mineralogy, New York University, New York, N. Y. (56). 1913. E I L

Woodman, Leon Elmer, Ph. D., Associate Professor of Physics, University of Maine, Orono, Me. (62). B

*Woodruff, Eugene Cyrus, Ph. D., State College, Pa. (63). 1915. D

*Woodruff, Lorande Loss, Ph. D., Professor of Biology, Yale College, New Haven, Conn. (52). 1908. F K

*Woods, Albert Frederick, Dean and Director, College of Agriculture, University of Minnesota, Minneapolis, Minn. (43). 1897. **B C F G H I K L M**

*Woods, Charles Dayton, Sc. D., Director, Maine Agricultural Experiment Station, Orono, Me. (50). 1901. **C M**

*Woods, Frederick Adams, M. D., 1006 Beacon St., Brookline, Mass. (51). 1902. **F H**

*Woods, Frederick Shenstone, Ph. D., Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. (58). 1909. **A L**

*Woods, Herbert Spencer, Berkeley, Cal. (58). 1911. **C L**

Woods, William Colcord, Department of Biology, Cornell University, Ithaca, N. Y. (65). **F**

Woodward, Augustus Janvier, M. D., Hotel Auburn, Cincinnati, Ohio. (57). **E K**

Woodward, Karl Wilson, U. S. Forest Service, Washington, D. C. (63). **G M**

Woodward, Laura E., 449 Chestnut Ave., Trenton, N. J. (66).

*Woodward, Robert Simpson, Sc. D., Ph. D., LL. D., President, Carnegie Institution of Washington, Washington, D. C. (33). 1885. **A B D**

*Woodward, Samuel B., M. D., 58 Pearl St., Worcester, Mass. (51). 1906. **E H**

Woodward, Sherman M., care Morgan Engineering Corp., Dayton, Ohio. (57). **A**

*Woodworth, Charles William, Professor of Entomology, University of California, Berkeley, Cal. (50). 1906. **F**

*Woodworth, Jay Backus, Associate Professor of Geology, Harvard University, Cambridge, Mass. (54). 1906. **E**

*Woodworth, Robert Sessions, Ph. D., Professor of Psychology, Columbia University, New York, N. Y. (49). 1901. **H K**

Woollen, William Watson, 518 American Central Life Building, Indianapolis, Ind. (55). **F**

*Woolley, Paul Gerhart, M. D., Professor of Pathology, University of Cincinnati, Cincinnati, Ohio. (55). 1910. **C K**

Woolsey, T. S., Jr., U. S. Forest Service, "Stonycroft," Albuquerque, N. Mex. (66). **M**

*Wooster, Lyman Child, Ph. D., Professor of Biology and Geology, State Normal School, Emporia, Kans. (54). 1911. **E F G**

*Wooton, Elmer O., Bureau of Plant Industry, U. S. Department of Agriculture, Washington, D. C. (56). 1911. **G**

Worcester, Dean A., Associate Professor of Psychology, University of New Mexico, Albuquerque, N. M. (65). **H**

*Worcester, Dean Conant, U. S. Philippine Commission, 20 Calle Nagtajan, Manila, P. I. (46). 1903. **F H**

*Worcester, Philip George, Department of Geology, University of Colorado, Boulder, Colo. (60). 1915. **E**

Worcester, Wilfred J., 137 East 37th St., New York, N. Y. (57).

Work, William Roth, Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. (57). **D**

Workman, Harper M., M. D., Tracy, Minn. (60). **K**

Works, George Alan, Professor of Rural Education, New York State College of Agriculture, Ithaca, N. Y. (66). **G L M**

*Worsham, Ernest Lee, State Entomologist, Atlanta, Ga. (58). 1914. **F**

*Worsham, William Archer, Jr., Professor of Agricultural Chemistry, Georgia State College of Agriculture, Athens, Ga. (62). 1914. **C M**

*Worthen, Thomas Wilson Dorr, Emeritus Professor of Mathematics, Dartmouth College, Hanover, N. H. (58). 1911. **A**

*Worthing, Archie Garfield, Ph. D., Terrace Road, Head of Grassmere St., East Cleveland, Ohio. (63). 1915. **B**

Worthington, Charles C., M. E., Shawnee on Delaware, Pa. (62). **D**

*WORTHINGTON, JAMES H., The Observatory, Four Marks, Alton, England. (64). 1915. **A**

*Wright, Albert Hazen, Ph. D., Assistant Professor of Zoology, Cornell University, Ithaca, N. Y. (56). 1913. **F**

Wright, Alexander Holland, Professor of Chemistry and Biology, Muskingum College, New Concord, Ohio. (62). **C F**

*Wright, Arthur Williams, Ph. D., Emeritus Professor of Experimental Physics, Yale University, New Haven, Conn. (14). 1874. **A B**

Wright, Charles A., 1043 Rush St., Chicago, Ill. (65). **C**

Wright, Clarence D., 3001 24th St., N. E., Washington, D. C. (63).

*Wright, Frederic Eugene, Ph. D., Geophysical Laboratory, Washington, D. C. (52). 1906. **B E**

*Wright, George Frederick, D. D., LL. D., Drawer M, Oberlin, Ohio. (29). 1882. **E H**

*Wright, Hamilton, M. D., Metropolitan Club, Washington, D. C. (58). 1914. **K**

*Wright, Henry Wilkes, Ph. D., Professor of Philosophy, Lake Forest College, Lake Forest, Ill. (58). 1915. **H**

Wright, Herbert B., E. M., Pocahontas, Va. (60). **D**

Wright, James Remus, Professor of Physics, University of the Philippines, Manila, P. I. (65). **B**

Wright, Jasper Heman, Mechanics Institute, Rochester, N. Y. (56). **F G**

*Wright, John Shepard, care Eli Lilly and Company, Indianapolis, Ind. (42). 1899. **G**

*Wright, Jonathan, M. D., Director, Department of Laboratories, New York Post-Graduate Medical School, 2d Ave. and 20th St., New York, N. Y. (43). 1911. **F H I K**

Wright, W. Q., Sausalito, Cal. (66).

*Wright, Walter Channing, Room 948, 141 Milk St., Boston, Mass. (54). 1906. **A L**

*Wright, Prof. Walter Livingston, Lincoln University, Pa. (50). 1906. **A B**

Wright, William H., Agricultural Hall, Madison, Wis. (64). **F**

Wright, William Joseph, Director, New York School of Agriculture, Alfred, N. Y. (63). **G M**

*Wulfing, John M., 3348 Longfellow Boulevard, St. Louis, Mo. (60). 1913. **H**

*Wulling, Frederick John, Ph. D., Dean, College of Pharmacy, University of Minnesota, Minneapolis, Minn. (58). 1910. **C**

Wulzen, Miss Rosalind, 2447 Carlton St., Berkeley, Cal. (65).

WUNDERLICH, FREDERICK W., M. D., 184 Joralemon St., Brooklyn, N. Y. (45). **K**

Würster, Oscar H., care Chambers, Ltd., 80 Don Esplanade, Toronto, Canada. (60). **C**

Würtele, Rev. Arthur Hunter, Rector, Calvary Church, Rochester, Minn. (63).

Würtele, John Hunter, 143 McGregor St., Sault Ste Marie, Ontario, Canada. (48).

*Würtele, Rev. Louis Campbell, P. O. Drawer E, Acton Vale, Quebec, Canada. (11). 1875. **E H**

Wussow, August Frank Daniel, 439 West 80th St., Chicago, Ill. (63). **G**

Wyatt, Francis, Ph. D., 20 Fifth Ave., New York, N. Y. (57). **C G**

Wyer, Samuel S., M. E., Harrison Building, Columbus, Ohio. (64). **D**

*Wylie, Clarence Raymond, E. E., University of Cincinnati, Cincinnati, Ohio. (60). 1915. **D**

*Wylie, Robert Bradford, Ph. D., Professor of Morphological Botany, State University of Iowa, Iowa City, Iowa. (53). 1905. **G**

Wynekoop, Gilbert H., M. D., 4500 Sheridan Road, Chicago, Ill. (60). **K**

Wynkoop, Gillett, 531 East 23d St., Brooklyn, N. Y. (58). **C**

Yalden, James Ernest Grant, 120 Woodridge Place, Leonia, N. J. (66). **A L**

*Yamanouchi, Shigeo, Ph. D., 27 Otsuka Nakamachi, Koishakawa-Ku, Tokyo, Japan. (57). 1909. **G**

*Yanney, Benjamin Franklin, Professor of Mathematics, College of Wooster, Wooster, Ohio. (51). 1906. **A**

*Yarrow, Harry C., M. D., 926 17th St., N. W., Washington, D. C. (23). 1874. **F H K**

Yates, Harry S., 1040 Keith Ave., Berkeley, Cal. (65).

*Yates, James Anderson, State Normal School, Pittsburg, Kans. (50). 1911. **B C E F**

Yates, William H., C. E., 449 West 123d St., New York, N. Y. (60). **D**

*Yatsu, Naohidé, Ph. D., Zoological Institute, Imperial University, Tokyo, Japan. (56). 1910. **F**

Yeatman, Pope, E. M., 165 Broadway, New York, N. Y. (58). **D**

Yeaton, Arthur Charles, Lisbon Falls, Me. (60). **C**

*Yerkes, Robert Mearns, Ph. D., Assistant Professor of Comparative Psychology, Harvard University, Cambridge, Mass. (52). 1905. **F H K**

Yerzley, William Alfred, M. E., 250 Littleton Ave., Newark, N. J. (63). **D**

Yoder, Ivan I., M. D., 1400 West 25th St., Cleveland, Ohio. (60). **K**

Yoder, Peter A., Ph. D., 516 2d St., S. E., Washington, D. C. (65). **C G**
*York, Harlan Harvey, Brown University, Providence, R. I. (62). 1913. **G**
Yothers, Merrill A., Assistant Entomologist, Washington Agricultural Experiment Station, Pullman, Wash. (63). **F**
*Yothers, William Walter, P. O. Box 599, Orlando, Fla. (55). 1914. **F**
Youmans, Vincent J., R. D. 4, Ballston Spa, N. Y. (43).
*Young, Abram Van Eps, Professor of Chemistry, Northwestern University, Evanston, Ill. (33). 1886. **B C**
*Young, Anne Sewell, Ph. D., Professor of Astronomy, Mt. Holyoke College, South Hadley, Mass. (54). 1907. **A**
Young, Frank B., M. D., Springdale, Ark. (60). **K**
*Young, George Albert, Ph. D., Petrographer and Field Geologist, Geological Survey of Canada, Ottawa, Canada. (57). 1911. **E**
Young, Gilbert Amos, M. E., Professor of Mechanical Engineering, Purdue University, La Fayette, Ind. (60). **D**
Young, Hugh Hampton, M. D., 330 North Charles St., Baltimore, Md. (53). **K**
Young, John Mason, M. E., Dean of Engineering, College of Hawaii, Honolulu, Hawaii. (60). **D**
Young, Lewis Emanuel, E. M., Department of Economics, University of Illinois, Urbana, Ill. (66). **D I**
Young, Reynold K., Dominion Observatory, Ottawa, Canada. (64). **A**
*Young, Robert Thompson, Ph. D., Professor of Zoology, University of North Dakota, University, N. D. (60). 1913. **F**
*Young, Stewart Woodford, Associate Professor of Chemistry, Leland Stanford Junior University, Stanford University, Cal. (50). 1901. **C**
Young, William, E. M., P. O. Box 396, Prince Rupert, B. C., Canada. (60). **D**
Young, William George, M. D., Ph. D., Widdicomb Building, Grand Rapids, Mich. (66). **E**
Young, Yungyen, Manyang Middle School, Shanghai, China. (65). **G**
Youngberg, Guy E., South Dakota Agricultural Experiment Station, Brookings, S. D. (63). **C M**
Youngblood, Bonney, Director, Texas Agricultural Experiment Stations, College Station, Texas. (65). **G M**
Youngken, Heber Wilkinson, Assistant Professor of Botany and Pharmacognosy, Medico-Chirurgical College, Philadelphia, Pa. (65). **F G**
*Yowell, Everett Irving, C. E., Corbett and Griest Avenues, Station O. Cincinnati, Ohio. (60). 1911. **A**
Yule, Mildred Rebecca, Tipton, Iowa. (65). **F**
Zaleski, Joseph P., M. D., 4645 South Ashland Ave., Chicago, Ill. (60). **K**
Zamora, Manuel, 162 San Sebastian, Manila, P. I. (63). **C**
Zanetti, J. E., Assistant Professor of Chemistry, Columbia University, New York, N. Y. (64). **C I**
*Zapffe, Carl, E. M., P. O. Box 93, Brainerd, Minn. (58). 1914. **D E**
*Zeiss, Carl, care Dr. Hans Boegehold, Jena, Germany. (58). 1915. **A**

*Zeit, Frederic Robert, M. D., Head, Department of Pathology and Bacteriology, Northwestern University Medical School, Chicago, Ill. (58). 1911. K

*Zeleny, Anthony, Ph. D., Professor of Physics, University of Minnesota, Minneapolis, Minn. (56). 1908. B

*Zeleny, Charles, Ph. D., Associate Professor of Zoology, University of Illinois, Urbana, Ill. (53). 1905. F

*Zeleny, John, Ph. D., Professor of Physics, University of Minnesota, Minneapolis, Minn. (50). 1901. B

Zeller, S. M., Missouri Botanical Garden, St. Louis, Mo. (66).

*Zerban, Fritz, Ph. D., P. O. Box 238, Experiment Station, Rio Piedras, Porto Rico. (58). 1915. C

*Zetek, James, Entomologo del Estado, Box 245, Ancon, C. Z, Panama. (60). 1914. F

Zia, Z. Zungtsoo, 121 Fort Hill Ave., Lowell, Mass. (63).

Ziegler, Jacob Frank Simpson, 204 Ohio Building, Clinton, Ill. (64).

Zimmerman, John, 389 Hill St., Dubuque, Iowa. (60). A

*Ziwet, Alexander, C. E., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. (38). 1890. A D

Zobel, Otto Julius, University of Wisconsin, Madison, Wis. (64). B

Zoller, Harper F., University of Puget Sound, Tacoma, Wash. (65).

Zon, Raphael, U. S. Forest Service, Washington, D. C. (66). M

Zook, Leslie Lewis, 545 North 27th St., Lincoln, Nebr. (63). G

Zuber, William H., 1149 Prindle St., Chehalis, Washington. (52). B C

INCORPORATED SCIENTIFIC BODIES.

[Holding membership under the provisions of Article 3 of the Constitution.]

Alabama Polytechnic Institute, Library of, Auburn, Ala. (64).

American Geographical Society, Broadway and 156th St., New York, N. Y. (60). E

American Philosophical Society, 104 South Fifth St., Philadelphia, Pa. (60). H

Arizona, University of, Library, Tucson, Ariz. (60).

California, University of, Library, Berkeley, Cal. (52).

Cedar Rapids, Public Library of, Cedar Rapids, Iowa. (65).

Cincinnati, Public Library of, Cincinnati, Ohio. (53).

Colgate University, Library of, Hamilton, N. Y. (63).

District of Columbia, The Public Library of, Washington, D. C. (60).

Drexel Institute, The Library, Philadelphia, Pa. (66).

Georgetown University, Washington, D. C. (52).

Howard Memorial Library, New Orleans, La. (54).

Howard University, Washington, D. C. (63).

Illinois, University of, Library, Urbana, Ill. (61).

Indiana State Library, Room 47, State House, Indianapolis, Ind. (60).

Instituto Geologico Nacional, 6a del Ciprés 176, Mexico, D. F., Mexico. (60). E

Iowa State Teachers College Library, Cedar Falls, Iowa. (58).

Iowa, State University of, Library, Iowa City, Iowa. (54).

Jersey City, Free Public Library of, Jersey City, N. J. (52).

Kentucky, State University of, Library, Lexington, Ky. (66).

Lincoln High School, Scranton Road and Castle Ave., Cleveland, Ohio. (63).

Marietta College Library, Marietta, Ohio. (51).

Michigan State Normal College, Ypsilanti, Mich. (53).

Minnesota Department of Agriculture Library, University Farm, St. Paul, Minn. (61).

Mt. Carmel Scientific Society, Mt. Carmel, Ill. (50).

Mt. Holyoke College, Library of, South Hadley, Mass. (58).

Mt. Union College, Library of, Alliance, Ohio. (62).

Nantucket Maria Mitchell Association, The, Nantucket, Mass. (58). A G

Nebraska, University of, Library, Lincoln, Nebr. (51).

Nebraska Wesleyan University, The Library of, University Place, Nebr. (65).

New York State College of Forestry, Syracuse, N. Y. (64).

NEW YORK STATE LIBRARY, James I. Wyer, Jr., Director, Albany, N. Y. (60).

New York University Library, University Heights, New York, N. Y. (60).

Normal College, Truro, Nova Scotia, Canada. (64).

Ohio State University Library, Columbus, Ohio. (54).
Oregon, University of, Library, Eugene, Ore. (60).
Ottawa University, Library of, Ottawa, Kansas. (63).
Philadelphia, The Free Library of, 13th and Locust Streets, Philadelphia, Pa. (51).
Pratt Institute Free Library, Ryerson St., Brooklyn, N. Y. (52).
Rhode Island Normal School, Providence, R. I. (60).
Russell Sage Foundation, Library of, 105 East 22d St., New York, N. Y. (60).
St. Agnes School, Albany, N. Y. (61).
St. Francis Xavier, The College of, Nostrand Avenue and Carroll St., Brooklyn, N. Y. (52).
St. Louis Public Library, Olive, 13th and 14th Sts., St. Louis, Mo. (64).
St. Olaf College Library, Northfield, Minn. (52).
Science Club Library, Earlham College, Earlham, Ind. (54).
Throop College of Technology, Pasadena, Cal. (66).
Toronto, University of, Library, H. H. Langton, Librarian, Toronto, Canada. (60).
Washington, University of, Library, Seattle, Wash. (55).
West Philadelphia High School for Girls, Library of, West Philadelphia, Pa. (64).
Wilmington Institute Free Library, Wilmington, Del. (52).

SUMMARY:

Corrected to June 22, 1915.

Patrons, 4; Fellows, 3881; Members, 4440; Total, 8325.

DECEASED MEMBERS.

(A list of deceased members of the Association, so far as known up to May, 1896, the time of publication of the Proceedings of the Springfield meeting (Vol. 44), is given in that volume. At the Buffalo meeting, the Council directed the Permanent Secretary to omit the printing of the full list of deceased members in the annual volumes and to print only the additions to the list. Since the publication of the list printed in the Minneapolis Proceedings (Vol. 62), notices have been received of the decease of the following members.)

Alexander, William De Witt, LL.D., Honolulu, Hawaii. (62). Died February, 1914.

Archinard, Paul E., M. D. New Orleans, La. (60).

Ayres, George Frederic, Ph. D., St. Charles, Mo. (58). Died October 23, 1913.

Baldwin, David Dwight, Haiku, Hawaii. (62). Died June 16, 1912.

BANGS, LEMUEL BOLTON, M. D., New York, N. Y. (36).

Barhydt, Mrs. P. Hackley, New York, N. Y. (57).

Barnhart, Arthur M., Chicago, Ill. (42). Died May 13, 1913.

Bayliss, Alfred, Macomb, Ill. (58). Died August 26, 1911.

Beal, William R., New York, N. Y. (57). Died June 4, 1912.

Beans, Mrs. T. Ellard, Berkeley, Cal. (65). Died November, 1914.

*Bessey, Charles Edwin, Ph. D., LL. D., Lincoln, Nebr. (21). Died March 2, 1915.

*Bickmore, Albert S., Ph. D., LL. D., New York, N. Y. (17). Died August 12, 1914.

Bilstein, Emma L., M. D., Baltimore, Md. (60). Died December 20, 1914.

*Blake, Francis, Auburndale, Mass. (23). Died January 19, 1913.

Blakeman, Mrs. Birdseye, New York, N. Y. (49).

Bolles, J. H., E. M., New York, N. Y. (58). Died 1913.

Bolster, Augustus S., M. D., Worcester, Mass. (50). Died September 3, 1912.

*Brackett, Cyrus Fogg, M. D., Princeton, N. J. (19). Died January 29, 1915.

*Bradford, Royal B., Rear Admiral, U. S. N., Washington, D. C. (31). Died August 4, 1914.

BRADLEY, ARTHUR C., Newport, N. H. (43). Died November 2, 1911.

Brainerd, Wolter Kirke, Blacksburg, Va. (62).

BRICE, JUDGE ALBERT G., New Orleans, La. (32). Died June 1, 1912.

Brodrick, Carlton Thayer, London, England. (57). Died May 7, 1915.

Brooks, Oliver K., Cleveland, Ohio. (63). Died September 14, 1914.

Brown, Hon. Addison, New York, N. Y. (57). Died April 9, 1913.

*Buckhout, William A., Sc. D., State College, Pa. (20). Died December 3, 1912.

*BUCKLEY, ERNEST ROBERTSON, Ph. D., Rolla, Mo. (52). Died July, 1913.
Burling, Rev. Lancaster C., West Chicago, Ill. (58). Died October 14, 1914.
*Busch, Frederick Carl, M. D., Buffalo, N. Y. (49).
Case, Zophar, M. D., Warrensburg, Mo. (58).
Chisholm, Hugh J., New York, N. Y. (50). Died July 8, 1912.
Church, Joseph B., Washington, D. C. (62).
*Christie, James, M. E., Philadelphia, Pa. (33). Died August, 1911.
Clark, William Brewster, M. D., New York, N.Y. (33). Died October, 1912.
*Claypole, Edith J., M. D., Berkeley, Cal. (46). Died March 27, 1915.
Clerc, Frank Laurent, Boulder, Colo. (50). Died 1915.
Coffeen, Hon. H. A., Sheridan, Wyoming. (51). Died December 8, 1912.
Coffey, Alexander, Baton Rouge, La. (64).
*COLBURN, RICHARD T., 120 Broadway, New York, N. Y. (31). Died December 9, 1913.
Cole, Aaron Hodgman, Chicago, Ill. (54).
Cook, Charles Delano, M. D., Brooklyn, N. Y. (25). Died September 5, 1912.
*Cox, Charles Finney, New York, N. Y. (43). Died January, 1912.
*Craig, John, Ithaca, N. Y. (41). Died August 10, 1912.
Curtis, Edward, M. D., New York, N. Y. (57). Died November 28, 1912.
Delafield, Joseph, New York, N. Y. (1). Died February 12, 1875.
Densmore, Emmet, M. D., Cassadaga, Fla. (54).
Dickson, Samuel, LL. D., 901 Clinton St., Philadelphia, Pa. (65). Died 1915.
Doughty, Mrs. Alla, Milford, Pa. (49). Died February 11, 1915.
Du Bois, Mrs. George W., Plainfield, N. J. (57). Died August 2, 1914.
*DUDLEY, WILLIAM LOFLAND, M. D., Vanderbilt University, Nashville, Tenn. (28). Died September 8, 1914.
*Duncan, Robert Kennedy, Sc. D., Pittsburgh, Pa. (57). Died February 18, 1914.
*Dyche, Lewis Lindsay, Pratt, Kansas. (51). Died January 20, 1915.
*Eastman, John Robie, Ph. D., Andover, N. H. (26). Died September 26, 1913.
Enfield, Charles, M. D., Jefferson, Iowa. (58). Died May 7, 1914.
Fairbanks, James R., M. D., Amsterdam, N. Y. (60). Died June 14, 1912.
Fischel, Washington E., M. D., St. Louis, Mo. (58). Died September 15, 1914.
Fleming, Dudley D., Jersey City, N. J. (50). Died April 10, 1914.
*Fletcher, Robert, M. D. Washington, D. C. (29). Died November 8, 1912.
*Forwood, Gen. William Henry, M. D., U. S. A., Washington, D. C. (52). Died May 11, 1914.
Freeman, Joseph Harlan, New York, N. Y. (63). Died January 27, 1913.
*Fritz, John, E. M., Bethlehem, Pa. (60). Died February 13, 1913.
FROTHINGHAM, MRS. FREDERICK, Fullerton, Cal. (31). Died July, 1913.
Fulda, Clemens, M. D., Brooklyn, N. Y. (57). Died February 26, 1914.
Furney, Elliott E., M. D., St. Petersburg, Fla. (60). Died April 14, 1914.

Gardner, Rev. Corliss B., Spencerport, N. Y. (29). Died December 7, 1912.

Gauss, Robert, Denver, Colo. (50).

*Gill, Theodore Nicholas, M. D., Ph. D., LL. D., Washington, D. C. (17). Died September 25, 1914.

Granger, Frank De Wolf, Washington, D. C. (62).

*Green, Bernard Richardson, Washington, D. C. (51). Died October 22, 1914.

Gregg, William Henry, M. D., St. Cloud, Fla. (49). Died June 21, 1915.

Hahn, Fritz Felix, Ph. D., Stuttgart, Germany. (63). Died September 8, 1914.

*Hallock, William, Ph. D., New York, N. Y. (40). Died May 21, 1913.

Hammar, Alfred G., Washington, D. C. (58). Died October 16, 1913.

Hanawalt, George P., M. D., Des Moines, Iowa. (58). Died June 19, 1912.

Harriot, Caroline, Camden, S. C. (58).

Harris, Turner M., Danville, Va. (61). Died November 8, 1913.

Harrod, Benjamin M., C. E., New Orleans, La. (60). Died September 7, 1912.

Havemeyer, W. F., New York, N. Y. (50). Died September 7, 1913.

*Haynes, Arthur Edwin, Sc. D., Minneapolis, Minn. (45). Died March 12, 1915.

*Haynes, Henry Williamson, Boston, Mass. (28). Died February 16, 1912.

Henderson, Royal L., Huntington, L. I., N. Y. (57). Died 1915.

Henry, Stewart L., M. D., New Orleans, La. (55). Died 1913.

Hermann, Ferdinand, New York, N. Y. (57). Died September 18, 1912.

Hinds, Franklin Allen, C. E., Watertown, N. Y. (57). Died August 23, 1913.

*Hiss, Philip Hanson, M. D., New York, N. Y. (49). Died February 27, 1913.

Holsinger, S. J., Meteor, Arizona. (58). Died August 8, 1911.

Holstein, George Wolf, Chevy Chase, D. C. (28). Died February 28, 1914.

Hooker, Charles Worcester, Mayaguez, P. R. (60). Died February 12, 1913.

Hooper, Franklin W., Brooklyn, N. Y. (43).

*Hough, Williston S., Washington, D. C. (58). Died September 18, 1912.

*Hovey, Rev. Horace Carter, D. D., Newburyport, Mass. (29). Died July 27, 1914.

Howe, John Morgan, M. D., New York, N. Y. (50). Died 1914.

*Howell, Edwin Eugene, Washington, D. C. (25). Died April, 1911.

*Huey, Edmund Burke, Ph. D., Connell, Wash. (58). Died December 30, 1913.

Hurd, Ethan Osborn, Cincinnati, Ohio. (30). Died March 24, 1913.

Ingham, William Armstrong, Philadelphia, Pa. (33). Died September 23, 1913.

*Jayne, Horace, M. D., Ph. D., Wallingford, Pa. (29). Died July 8, 1913.
*Jenks, Elisha Tucker, Middleboro, Mass. (22). Died January 10, 1913.
Jenne, Eldred Llewellyn, Washington, D. C. (58). Died May 10, 1912.
*Johnson, Otis Coe, Ann Arbor, Mich. (34). Died June, 1913.
Johnson, Thomas H., C. E., Pittsburgh, Pa. (60). Died 1915.
Jones, Dwight Arven, New York, N. Y. (57). Died December 7, 1913.
Jones, W. Ralph, Washington, D. C. (61). Died May 17, 1915.
Kern, Josiah Quincy, Ph. D., Washington, D. C. (40). Died November 28, 1913.
*King, Albert F. A., M. D., LL.D., Washington, D. C. (29). Died December 13, 1914.
*Kortright, Frederic Lawrence, Sc. D., Morgantown, W. Va. (55). Died August, 1914.
Lane, Horace Manley, M. D., Sao Paulo, Brazil, S. A. (46). Died October, 1912.
Langeloth, Jacob, Riverside, Conn. (57). Died August 14, 1914.
Lawford, Jasper Mauduit, Baltimore, Md. (58). Died December 13, 1913.
Lay, Henry Champlin, C. E., Telluride, Colo. (50). Died June 9, 1914.
*Le Fevre, Egbert, M. D., Sc. D., LL. D., New York, N. Y. (57). Died March 30, 1914.
*Le Gras, Gustave, College of the City of New York, New York, N. Y. (54).
*Lennon, William H., Brockport, N. Y. (31). Died March 9, 1913.
Lester, Charles Stanley, Washington, D. C. (62). Died March 17, 1913.
Lewis, George Smith, Springfield, Mass. (44). Died July 1, 1914.
Lindahl, Josua, Ph. D., Chicago, Ill. (55). Died April 18, 1912.
Lockwood, Homer N., Washington, D. C. (63). Died June 6, 1913.
*Loeb, Morris, Ph. D., New York, N. Y. (36). Died October 8, 1912.
*Longstreth, Morris, M. D., Philadelphia, Pa. (54). Died September 19, 1914.
Low, A. A., Brooklyn, N. Y. (43). Died September 25, 1912.
Lummis, William, New York, N. Y. (57). Died April 1, 1915.
Lyman, Henry Herbert, Montreal, Canada. (29). Died May 29, 1914.
*MacAlister, James, LL. D., Philadelphia, Pa. (54).
*McBurney, Charles, M. D., Stockbridge, Mass. (57). Died November 7, 1913.
*McCauley, Col. Charles A. H., U. S. A., Highland Park, Ill. (29). Died December 20, 1913.
McClelland, James H., M. D., Pittsburgh, Pa. (50). Died November 14, 1913.
McCraven, Bonner N., Houston, Texas. (60).
*McFarlane, Alexander, Sc. D., LL. D., Chatham, Ont., Can. (34). Died November, 1913.
*McGee, W. J., LL. D., Washington, D. C. (27). Died September 5, 1912.
*McMurtrie, William, Ph. D., New York, N. Y. (22). Died May 24, 1913.
McMurtry, Charles Wood, M. D., New York, N. Y. (57). Died November 25, 1914.

*Mallet, John William, M. D., Ph. D., LL. D., Charlottesville, Va. (52). Died November 7, 1912.

Manning, George Lincoln, Ph. D., Constantinople, Turkey. (62). Died December 11, 1914.

Marcou, John B., Princeton, Mass. (57). Died July 18, 1912.

*Marks, William Dennis, C. E., New York, N. Y. (50). Died January 6, 1914.

Marvin, Joseph B., M. D., LL. D., Louisville, Ky. (51). Died September 2, 1913.

Maynard, Washburn, Rear Admiral, U. S. N., Narragansett Pier, R. I. (33). Died October 24, 1913.

Mead, Charles Searing, Ph. D., Suffield, Conn. (52). Died January 17, 1914.

Meek, Seth Eugene, Ph. D., Chicago, Ill. (58). Died June 6, 1914.

Megrath, William A., New York, N. Y. (62). Died May 23, 1915.

Merritt, David Spencer, C. E. Tarrytown, N. Y. (58).

*Messenger, Hiram John, Ph. D., Hartford, Conn. (54). Died December 15, 1913.

Miller, Eli P., New York, N. Y. (57). Died January 13, 1913.

Miller, James Blaine, Washington, D. C. (63). Died May 7, 1915.

*Mills, Wesley, M. D., London, England. (31). Died February 14, 1915.

Miner, Charles A., C. E., Washington, D. C. (58). Died 1912.

*Minot, Charles Sedgwick, M. D., Sc. D., LL. D., Boston, Mass. (28). Died November 19,1914.

*Morris, Edward Lyman, Brooklyn, N. Y. (52). Died September 14, 1913.

Morrison, Gilbert B., St. Louis, Mo. (48). Died February 6, 1913.

*Muir, John, LL. D., Martinez, Cal. (22). Died December 24, 1914.

Mumford, James Gregory, M. D., Clifton Springs, N. Y. (62). Died October 18, 1914.

Nelson, Wolfred, New York, N. Y. (35). Died January 15, 1913.

Nelson, William, Paterson, N. J. (42). Died August 10, 1914.

Newkirk, Johnson, Ridley Park, Pa. (58).

Noble, Alfred, C. E., New York, N. Y. (57). Died April 20, 1914.

Ogden, Robert Curtis, LL. D., New York, N. Y. (57). Died August 6, 1913.

*Oldberg, Oscar, Chicago, Ill. (54). Died February 27, 1913.

*Oliphant, F. H., Beaver, Pa. (51). Died April, 1914.

Paddock, Eugene H., New York, N. Y. (57). Died December 9, 1912.

*Park, Roswell, M. D., LL. D., Buffalo, N. Y. (45). Died February 15, 1914.

Parsons, John Edward, New York, N. Y. (36). Died January 16, 1914.

*Peabody, George Livingston, M. D., Newport, R. I. (57). Died October 30, 1914.

Pearson, Fred Stark, C. E., Kingston Hill, Surrey, Eng. (50). Died May 7, 1915.

Peck, Mrs. John Hudson, Troy, N. Y. (28). Died May 26, 1914.

Peet, Rev. Stephen Denison, Ph. D., Salem, Mass. (58).

*Peirce, Benjamin Osgood, Ph. D., Sc. D., Cambridge, Mass. (47). Died January 14, 1914.

Perry, Charles J., New York, N. Y. (57). Died July 13, 1913.

*Pettegrew, David Lyman, Worcester, Mass. (44). Died January 14, 1914.

Pettit, James Harvey, Ph. D., Urbana, Ill. (62). Died December 30, 1914.

*Phillips, Andrew Wheeler, Ph. D., New Haven, Conn. (24). Died January 20, 1915.

Pickett, Thomas E., M. D., Maysville, Ky. (25). Died September 3, 1913.

*Pierce, Arthur Henry, Ph. D., Northampton, Mass. (60). Died February 20, 1914.

Pinkus, Harry, Dallas, Texas. (64). Died August 27, 1914.

Pilling, John W., Washington, D. C. (40). Died March 2, 1914.

Planten, John R., Brooklyn, N. Y. (57). Died January 10, 1913.

Pomeroy, E. H., M. D., Bradentown, Fla. (58). Died June 22, 1913.

Post, Martin Hayward, M. D., St. Louis, Mo. (60). Died September 1, 1914.

Preece, Sir William, E. E., London, England. (60). Died November 6, 1913.

*Prentiss, Robert Woodworth, New Brunswick, N. J. (40). Died April 5, 1913.

Preston, Edmund B., San Francisco, Cal. (65).

QUINAN, WILLIAM RUSSELL, Cape Colony, South Africa. (56). Died August 15, 1910.

Ramsperger, Gustav, New York, N. Y. (57). Died May 6, 1912.

Reid, Hon. Whitelaw, New York, N. Y. (50). Died December 15, 1912.

Reuter, Enzio Rafael, Ph. D., Helsingfors, Finland, Europe. (58). Died September 2, 1913.

Reynolds, George B., M. D., Baltimore, Md. (60). Died May 1, 1915.

Rheem, Clarence B., Washington, D. C. (63). Died April 9, 1913.

Richardson, Maurice H., M. D., Boston, Mass. (60). Died July 31, 1912.

Risk, J. Boyd, M. D., Summit, N. J. (60). Died 1914.

*Robinson, Charles Budd, Ph. D., Manila, P. I. (58). Died December 23, 1913.

Robinson, Henry Smith, M. E., Andover, Mass. (60). Died April 4, 1912.

*Robinson, Otis Hall, Ph. D., Rochester, N. Y. (23).

Robinson, Samuel Adams, M. D., Portland, Oregon. (51). Died October 9, 1913.

Rosenthal, Edwin, M. D., Philadelphia, Pa. (51). Died April 22, 1912.

*Salmon, Daniel Elmer, M. D., Butte, Montana. (31). Died September 2, 1914.

*Mallet, John William, M. D., Ph. D., LL. D., Charlottesville, Va. (52). Died November 7, 1912.

Manning, George Lincoln, Ph. D., Constantinople, Turkey. (62). Died December 11, 1914.

Marcou, John B., Princeton, Mass. (57). Died July 18, 1912.

*Marks, William Dennis, C. E., New York, N. Y. (50). Died January 6, 1914.

Marvin, Joseph B., M. D., LL. D., Louisville, Ky. (51). Died September 2, 1913.

Maynard, Washburn, Rear Admiral, U. S. N., Narragansett Pier, R. I. (33). Died October 24, 1913.

Mead, Charles Searing, Ph. D., Suffield, Conn. (52). Died January 17, 1914.

Meek, Seth Eugene, Ph. D., Chicago, Ill. (58). Died June 6, 1914.

Megrath, William A., New York, N. Y. (62). Died May 23, 1915.

Merritt, David Spencer, C. E. Tarrytown, N. Y. (58).

*Messenger, Hiram John, Ph. D., Hartford, Conn. (54). Died December 15, 1913.

Miller, Eli P., New York, N. Y. (57). Died January 13, 1913.

Miller, James Blaine, Washington, D. C. (63). Died May 7, 1915.

*Mills, Wesley, M. D., London, England. (31). Died February 14, 1915.

Miner, Charles A., C. E., Washington, D. C. (58). Died 1912.

*Minot, Charles Sedgwick, M. D., Sc. D., LL. D., Boston, Mass. (28). Died November 19,1914.

*Morris, Edward Lyman, Brooklyn, N. Y. (52). Died September 14, 1913.

Morrison, Gilbert B., St. Louis, Mo. (48). Died February 6, 1913.

*Muir, John, LL. D., Martinez, Cal. (22). Died December 24, 1914.

Mumford, James Gregory, M. D., Clifton Springs, N. Y. (62). Died October 18, 1914.

Nelson, Wolfred, New York, N. Y. (35). Died January 15, 1913.

Nelson, William, Paterson, N. J. (42). Died August 10, 1914.

Newkirk, Johnson, Ridley Park, Pa. (58).

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*Oldberg, Oscar, Chicago, Ill. (54). Died February 27, 1913.

*Oliphant, F. H., Beaver, Pa. (51). Died April, 1914.

Paddock, Eugene H., New York, N. Y. (57). Died December 9, 1912.

*Park, Roswell, M. D., LL. D., Buffalo, N. Y. (45). Died February 15, 1914.

Parsons, John Edward, New York, N. Y. (36). Died January 16, 1914.

*Peabody, George Livingston, M. D., Newport, R. I. (57). Died October 30, 1914.

Pearson, Fred Stark, C. E., Kingston Hill, Surrey, Eng. (50). Died May 7, 1915.

Peck, Mrs. John Hudson, Troy, N. Y. (28). Died May 26, 1914.

Peet, Rev. Stephen Denison, Ph. D., Salem, Mass. (58).

*Peirce, Benjamin Osgood, Ph. D., Sc. D., Cambridge, Mass. (47). Died January 14, 1914.

Perry, Charles J., New York, N. Y. (57). Died July 13, 1913.

*Pettegrew, David Lyman, Worcester, Mass. (44). Died January 14, 1914.

Pettit, James Harvey, Ph. D., Urbana, Ill. (62). Died December 30, 1914.

*Phillips, Andrew Wheeler, Ph. D., New Haven, Conn. (24). Died January 20, 1915.

Pickett, Thomas E., M. D., Maysville, Ky. (25). Died September 3, 1913.

*Pierce, Arthur Henry, Ph. D., Northampton, Mass. (60). Died February 20, 1914.

Pinkus, Harry, Dallas, Texas. (64). Died August 27, 1914.

Pilling, John W., Washington, D. C. (40). Died March 2, 1914.

Planten, John R., Brooklyn, N. Y. (57). Died January 10, 1913.

Pomeroy, E. H., M. D., Bradentown, Fla. (58). Died June 22, 1913.

Post, Martin Hayward, M. D., St. Louis, Mo. (60). Died September 1, 1914.

Preece, Sir William, E. E., London, England. (60). Died November 6, 1913.

*Prentiss, Robert Woodworth, New Brunswick, N. J. (40). Died April 5, 1913.

Preston, Edmund B., San Francisco, Cal. (65).

QUINAN, WILLIAM RUSSELL, Cape Colony, South Africa. (56). Died August 15, 1910.

Ramsperger, Gustav, New York, N. Y. (57). Died May 6, 1912.

Reid, Hon. Whitelaw, New York, N. Y. (50). Died December 15, 1912.

Reuter, Enzio Rafael, Ph. D., Helsingfors, Finland, Europe. (58). Died September 2, 1913.

Reynolds, George B., M. D., Baltimore, Md. (60). Died May 1, 1915.

Rheem, Clarence B., Washington, D. C. (63). Died April 9, 1913.

Richardson, Maurice H., M. D., Boston, Mass. (60). Died July 31, 1912.

Risk, J. Boyd, M. D., Summit, N. J. (60). Died 1914.

*Robinson, Charles Budd, Ph. D., Manila, P. I. (58). Died December 23, 1913.

Robinson, Henry Smith, M. E., Andover, Mass. (60). Died April 4, 1912.

*Robinson, Otis Hall, Ph. D., Rochester, N. Y. (23).

Robinson, Samuel Adams, M. D., Portland, Oregon. (51). Died October 9, 1913.

Rosenthal, Edwin, M. D., Philadelphia, Pa. (51). Died April 22, 1912.

*Salmon, Daniel Elmer, M. D., Butte, Montana. (31). Died September 2, 1914.

Saunders, Dr. William, C. M. G., London, Ont., Canada. (17). Died September 13, 1914.
Schenck, Charles C., Ph. D., Baltimore, Md. (51).
Schniewind, F., Ph. D., New York, N. Y. (57). Died March 12, 1913.
*Schoney, Lazarus, Ph. D., M. D., Coney Island, N. Y. (29). Died February 17, 1914.
*Scovell, Melville Amasa, Ph. D., Lexington, Ky. (35). Died August 15, 1912.
*Scull, Miss Sarah A., Smethport, Pa. (40). February 12, 1913.
Shaw, Henry Lyman, M. D., Boston, Mass. (51). Died April, 1911.
Smith, Eugene, C. E., Hoboken, N. J. (50). Died December 24, 1912.
Sommer, Richard E. W., Milwaukee, Wis. (60).
*Soule, William, Ph. D., Alliance, Ohio. (33). Died April 18, 1914.
*Speyers, Clarence Livingston, Pittsburgh, Pa. (50).
Spofford, Paul N., New York, N. Y. (36). Died September, 1912.
Spohn, Arthur Edward, M. D., Corpus Christi, Texas. (50). Died May 5, 1913.
*Steel, Warren Merrill, Amherst, N. S., Canada. (57). Died August 19, 1910.
Steinbach, Lewis W., M. D., Philadelphia, Pa. (51).
Stevens, Horace J., E. M., Houghton, Mich. (60).
*Stokes, Anson Phelps, New York, N. Y. (50). Died June 28, 1913.
Strong, Sylvester E., M. D., Saratoga Springs, N. Y. (60). Died March 17, 1913.
*Stubbs, Joseph Edward, D. D., LL. D., Reno, Nevada. (54). Died May, 1914.
Sundberg, John C., M. D., Seattle, Wash. (60). Died February, 1913.
*Sutton, William John, Victoria, B. C., Can. (50). Died July 1, 1914.
*Taylor, Frederick Winslow, M. E., Sc. D., Philadelphia, Pa. (60). Died March 21, 1914.
Taylor, George W., Nanaimo, B. C., Can. (60). Died September, 1912.
Taylor, John J., M. D., Philadelphia, Pa. (61). Died August 1, 1912.
Thomas, B. F., Chattanooga, Tenn. (63). Died June, 1914.
Thompson, James L., M. D., Indianapolis, Ind. (39). Died 1913.
*Thruston, Gates Phillips, Nashville, Tenn. (38). Died November 8, 1913.
Tibbits, Henry S., Chicago, Ill. (61).
*True, Frederick William, LL. D., Washington, D. C. (28). Died June 25, 1914.
Trush, Jacob, M. D., Cincinnati, Ohio. (60). Died 1915.
*Uhler, Philip Reese, LL. D., Baltimore, Md. (19). Died October 21, 1913.
*Upton, Winslow, Sc. D., Providence, R. I. (29). Died January 8, 1914.
Valle, Felipe, Tacubaya, D. F., Mexico. (54). Died September, 1910.
*Van Vleck, John Monroe, LL. D., Middletown, Conn. (23). Died November 4, 1912.
Vinal, W. Irving, Washington, D. C. (40). Died April 5, 1914.

Von Schmid, J. O., New York, N. Y. (57). Died November 3, 1913.
*Wadsworth, Oliver F., M. D., Boston, Mass. (52). Died 1911.
Ward, Charles, Charleston, W. Va. (57). Died January 17, 1915.
*Ward, Lester Frank, LL.D., Providence, R. I. (26). Died April 18, 1913.
*Ware, William R., Milton, Mass. (36). Died June 9, 1915.
Washington, William de Hertburne, C. E., New York, N. Y. (60). Died August 30, 1914.
Watson, Rev. John Henry, New York, N. Y. (57). Died October 31, 1913.
*Webb, John Burkitt, C. E., Hoboken, N. J. (31). Died August 6, 1913.
*Weber, Henry Adam, Ph.D., Columbus, Ohio. (35). Died June 14, 1912.
Weber, Leonard, M. D., New York, N. Y. (57). Died March 1, 1912.
*Wendell, Oliver Clinton, Sc. D., Cambridge, Mass. (56). Died November 6, 1912.
*WESTINGHOUSE, GEORGE, Pittsburgh, Pa. (50). Died March 12, 1914.
*Wheeler, Henry Lord, Ph. D., New Haven, Conn. (50). Died October 30, 1914.
White, Charles Henry, U. S. N., Center Sandwich, N. H. (34). Died July 25, 1914.
*Williams, Benezette, Chicago, Ill. (33). Died June 22, 1914.
*Williams, Leonard Worcester, Ph. D., Boston, Mass. (52). Died September 26, 1912.
Williams, Percy Frederic, Auburn, Ala. (61). Died December, 1912.
*Winchell, Newton Horace, Minneapolis, Minn. (19). Died May 2, 1914.
*Wood, Stuart, Ph. D., Philadelphia, Pa. (51). Died March 2, 1914.
Woodbury, Frederick E., E. M., Milwaukee, Wis. (60). Died January 21, 1914.
Woodruff, Charles Edward, Lieut.-Col., U. S. A., New Rochelle, N. Y. (54). Died June 13, 1915.
*Woodward, Calvin Milton, Ph. D., LL. D., St. Louis, Mo. (32). Died January 12, 1914.

THE SIXTY-THIRD MEETING

WASHINGTON, D. C.

December 27 to 30, 1911.

PRESIDENTIAL ADDRESS.

For address of retiring President ALBERT A. MICHELSON, delivered at the Washington meeting, see *Science*, N. S. Vol. XXXIV, No. 887, December 29, 1911, pp.893–902. Title: Recent Progress in Spectroscopic Methods.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.
EDWIN B. FROST, Williams Bay.

Secretary.
GEORGE A. MILLER, Urbana.

Member of Council.
EDGAR O. LOVETT, Houston.

Sectional Committee.
ELIAKIM H. MOORE, Vice-President, 1911; EDWIN B. FROST, Vice-President, 1912; G. A. MILLER, Secretary; F. R. MOULTON, 1 year; E. W. BROWN, 2 years; WINSLOW UPTON, 3 years; E. R. SMITH, 4 years; C. S. HOWE, 5 years.

Member of General Committee.
H. T. EDDY, Minneapolis.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section A in *Science*, N. S. Vol. XXXV, No. 893, February 9, 1912, pp. 220–221.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
ROBERT A. MILLIKAN, Chicago.

Secretary.
ALFRED D. COLE, Columbus.

Member of Council.
O. M. STEWART, Columbia.

Sectional Committee.
EDWARD B. ROSA, Vice-President, 1911; ROBERT A. MILLIKAN, Vice-President, 1912; A. D. COLE, Secretary; K. E. GUTHE, 1 year; A. P. CARMAN, 2 years; G. F. HULL, 3 years; E. L. NICHOLS, 4 years; ANTHONY ZELENY, 5 years. *Ex officio:* W. F. MAGIE, President, American Physical Society; ERNEST MERRITT, Secretary, American Physical Society.

Member of General Committee.
G. W. STEWART, Iowa City.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section B in *Science*, N. S. Vol. XXXV, No. 900, March 29, 1912, pp. 510–516.

For address of retiring Vice-President EDWARD B. ROSA, see *Science*, same volume, No. 888, January 5, 1912, pp. 8–19. Title: The Work of the Electrical Division of the Bureau of Standards.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.
FRANK K. CAMERON, Washington.

Secretary.
C. H. HERTY, Chapel Hill.

Member of Council.
WALTER P. BRADLEY, Middletown.

Sectional Committee.
G. B. FRANKFORTER, Vice-President, 1911; FRANK K. CAMERON, Vice-President, 1912; CHARLES H. HERTY, Secretary; W. J. GIES, 1 year; FRANK K. CAMERON, 2 years; W. D. BANCROFT, 3 years; W. L. DUDLEY,* 4 years; C. L. ALSBERG, 5 years. *Ex officio:* ALEXANDER SMITH, President, American Chemical Society; C. L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.
C. F. BURGESS.

For list of papers presented before the joint session of this Section with the American Chemical Society at the Washington meeting, see reports of Secretary in *Science*, N. S. Vol. XXXV, No. 889, January 12, 1912, pp.79–80; No. 897, March 8, 1912, pp. 378–396, and No. 898, March 15, 1912, pp. 422–435.

For address of retiring Vice-President GEORGE B. FRANKFORTER, see *Science*, Vol. XXXVI, No. 922, August 30, 1912, pp. 257–263. Title: The Resins and their Chemical Relations to the Terpenes.

*Deceased.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.
CHARLES S. HOWE, Cleveland.

Secretary.
G. W. BISSELL, East Lansing.

Member of Council.
A. F. ZAHM, Washington.

Sectional Committee.
A. L. ROTCH*, Vice-President, 1911; C. S. HOWE, Vice-President, 1912; G. W. BISSELL, Secretary; J. E. BOYD, 1 year; A. H. BLANCHARD, 2 years; C. M. WOODWARD,* 3 years; W. J. HUMPHREYS, 4 years; G. O. SQUIER, 5 years.

Member of General Committee.
F. O. MARVIN, Lawrence.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section D in *Science*, N. S. Vol. XXXV, No. 901, April 5, 1912, pp. 547–553.

For address of retiring Vice-President A. LAWRENCE ROTCH,* see *Science*, ame volume, No. 889, January 12, 1912, pp. 41–46. Title: Aerial Engineering.

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*Deceased.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
BOHUMIL SHIMEK, Iowa City.

Secretary.
F. P. GULLIVER, Norwich.

Member of Council.
A. P. BRIGHAM, Hamilton.

Sectional Committee.
CHRISTOPHER W. HALL,* 1911; BOHUMIL SHIMEK, 1912; F. P. GULLIVER, Secretary; E. O. HOVEY, Preceding Secretary; J. B. WOODWORTH, 1 year; F. B. TAYLOR, 2 years; G. K. GILBERT, 3 years; C. W. HAYES, 4 years; A. G. LEONARD, 5 years. *Ex officio:* W. M. DAVIS, President, G. S. A.; E. O. HOVEY, Secretary, G. S. A.; R. S. TARR,* President, A. A. G.; A. P. BRIGHAM, Secretary, A. A. G.

Member of General Committee.
GEORGE OTIS SMITH, Washington.

This Section presented no program at this meeting on account of the presence of the Geological Society of America and the Association of American Geographers.

(*Owing to the death of Vice-President Hall there was no vice-presidential address before this Section at the Washington meeting.*)

*Deceased.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
H. F. NACHTRIEB, Minneapolis.

Secretary.
MAURICE A. BIGELOW, New York.

Member of Council.
W. A. LOCY, Evanston.

Sectional Committee.
JACOB REIGHARD, Vice-President, 1911; H. F. NACHTRIEB, Vice-President, 1912; M. A. BIGELOW, Secretary; A. L. TREADWELL, 1 year; C. C. NUTTING, 2 years; EDWIN LINTON, 3 years; H. F. NACHTRIEB, 4 years; HENRY B. WARD, 5 years.

Member of General Committee.
MORTON J. ELROD, Missoula.

For list of papers presented before the sectional meeting and the joint session of this Section with the American Psychological Association at the Washington meeting, see report of Secretary in *Science*, N. S. Vol. XXXV, No. 892, February 2, 1912, pp. 191–193.

(*Owing to the absence of retiring Vice-President Jacob Reighard, there was no vice-presidential address delivered before this Section at this meeting.*)

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
F. C. NEWCOMBE, Ann Arbor.

Secretary.
HENRY C. COWLES, Chicago.

Member of Council.
F. C. NEWCOMBE, Ann Arbor.

Sectional Committee.
R. A. HARPER, Vice-President, 1911; F. C. NEWCOMBE, Vice-President, 1912; HENRY C. COWLES, Secretary; F. E. LLOYD, Preceding Secretary; W. TRELEASE, 1 year; R. A. HARPER, 2 years; D. T. MACDOUGAL, 3 years; H. M. RICHARDS, 4 years; L. H. PAMMEL, 5 years. *Ex officio:* WILLIAM G. FARLOW, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; A. D. SELBY, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
CHARLES E. ALLEN, Madison.

For address of retiring Vice-President R. A. HARPER, see *Science*, N. S. Vol. XXXV, No. 911, June 14, 1912, pp. 909–923. Title: Some Current Conceptions of the Germ Plasm.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
GEORGE T. LADD, New Haven.

Secretary.
GEORGE GRANT MACCURDY, New Haven.

Member of Council.
FRANZ BOAS, New York.

Sectional Committee.
ROLAND B. DIXON, Vice-President, 1911; GEORGE T. LADD, Vice-President, 1912; GEORGE GRANT MACCURDY, Secretary; W. H. HOLMES, 1 year; R. B. DIXON, 2 years; G. A. DORSEY, 3 years; G. B. GORDON, 4 years; ———, 5 years. *Ex officio:* CARL E. SEASHORE, President, American Psychological Association; W. VAN DYKE BINGHAM, Secretary, American Psychological Association; H. M. BELDEN, President, American Folk-Lore Society; CHARLES PEABODY, Secretary, American Folk-Lore Society.

Member of General Committee.
CHARLES PEABODY, Cambridge.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section H in *Science*, N. S. Vol. XXXV, No. 904, April 26, 1912, pp. 665–676.

For address of retiring Vice-President ROLAND B. DIXON, see *Science*, N. S. Vol. XXXV, No. 889, January 12, 1912, pp. 46–55. Title: The Independence of the Culture of the American Indian.

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.
J. PEASE NORTON, New Haven.

Secretary.
SEYMOUR C. LOOMIS, New Haven.

Member of Council.
JOHN FRANKLIN CROWELL, New York.

Sectional Committee.
THEODORE E. BURTON, Vice-President, 1911; J. PEASE NORTON, Vice-President, 1912; SEYMOUR C. LOOMIS, Secretary; FRED C. CROXTON, Preceding Secretary; W. R. LAZENBY, 1 year; CHARLES A. CONANT, 2 years; IRVING FISHER, 3 years; JOHN F. CROWELL, 4 years; JOHN B. CLARK, 5 years.

Member of General Committee.
WILLIAM R. LAZENBY, Columbus.

For list of papers presented before this Section at the Washington meeting, see report of Secretary of Section I in *Science*, N. S. Vol. XXXV, No. 892, February 2, 1912, pp. 197–199.

For address of retiring Vice-President THEODORE E. BURTON, see *Science*, same volume, No. 891, January 26, 1912, pp. 129–140. Title: The Cause of High Prices.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.
WILLIAM T. PORTER, Boston.

Secretary.
GEORGE T. KEMP, Baltimore.

Member of Council.
S. J. MELTZER, New York.

Sectional Committee.
FREDERICK G. NOVY, Vice-President, 1911; WILLIAM T. PORTER, Vice-President, 1912; GEORGE T. KEMP, Secretary; T. H. SOLLMANN, 1 year; ELIAS P. LYON, 2 years; WM. J. GIES, 3 years; WM. H. HOWELL, 4 years; THOMAS G. LEE, 5 years.

Member of General Committee.
CH. WARDELL STILES, Washington.

For address of retiring Vice-President, FREDERICK G. NOVY, see *Science*, N. S. Vol. XXXVI, No. 914, July 5, 1912, pp. 1–10. Title: Disease Carriers.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.
EDWARD L. THORNDIKE, New York.

Secretary.
C. RIBORG MANN, Chicago.

Member of the Council.
JAMES E. RUSSELL, New York.

Sectional Committee.
A. ROSS HILL, Vice-President, 1911; EDWARD L. THORNDIKE, Vice-President, 1912; C. R. MANN, Secretary; C. M. WOODWARD,* 1 year; C. H. JUDD, 2 years; E. E. BROWN, 3 years; JOHN DEWEY, 4 years; W. C. BAGLEY, 5 years.

Member of General Committee.
EDWARD C. ELLIOTT, Madison.

*Deceased.

EXECUTIVE PROCEEDINGS

WASHINGTON MEETING

December 27 to 30, 1911.

EXECUTIVE PROCEEDINGS.

Washington Meeting.

REPORT OF GENERAL SECRETARY.

The Sixty-third meeting of the American Association for the Advancement of Science was held at Washington, D. C., December 27 to 30, 1911, under the presidency of Dr. Charles E. Bessey, of the University of Nebraska. The meeting was the most successful in the history of the association, both from the point of attendance and from the enthusiasm shown. Beautiful weather prevailed throughout and the people of Washington, including the many scientific men connected with the various governmental bureaus, did everything in their power to make the stay of the visitors pleasant and profitable. The total registration of members of the association was 1,306, whereas the largest previous registration was that at the third Boston meeting, when the total was 1,140. A conservative estimate of the actual number of members of the association present in Washington would place the number at 1,800 and there were doubtless as many as a thousand more present who are members of affiliated societies and not members of the association itself. The following is a list of affiliated and other scientific societies which met in Washington at the same time:

Astronomical and Astrophysical Society of America.
American Physical Society.
American Society of Biological Chemists.
American Chemical Society.
Association of American Geographers.
Geological Society of America.
Paleontological Society of America.
American Association of Economic Entomologists.
Entomological Society of America.
American Breeders' Association.
American Psychological Association.
Southern Society for Philosophy and Psychology.
Botanical Society of America.
American Fern Society.
Society for Horticultural Science.
American Microscopical Society.
American Nature-Study Society.
American Phytopathological Society.
Sullivant Moss Society.
American Anthropological Association.
American Folk-Lore Society.
American Civic Alliance.
American Economic Association.

American Association for Labor Legislation.
American Sociological Society.
American Statistical Association.
American Home Economics Association.
American Physiological Association.
Society of American Bacteriologists.
American Federation of Teachers of the Mathematical and Natural Sciences.
Society of the Sigma Xi.

The opening reception to members of the association and affiliated and visiting societies was given at the new building of the National Museum from 8 to 9 P. M. of December 27. At the close of the reception, the association held its first general meeting in the assembly hall of the Museum. The meeting was called to order by the retiring president, Dr. A. A. Michelson, who introduced the president-elect, Dr. Charles E. Bessey, who in turn introduced the President of the United States, Mr. William H. Taft, who delivered the following address of welcome:

I had a Christmas present a day or two ago. It was a new Encyclopædia Britannica. On the first page of it—I suppose that was the reason why I got it—there was a dedication to King George V. and William Howard Taft, president of the United States. Standing as I do in the presence of this live encyclopædia of all knowledge, I have the same feeling of awe now that I had when I saw that name before all the knowledge of the world. At first I thought somebody else ought to speak before me, but I am glad to come first, because as a welcomer it is not necessary for me to advance a single scientific proposition. I am here only as the Mayor of Washington to advise you that you have the freedom of the city and that it is a beautiful city which you can not stay too long in. Indeed the longer you stay, the longer you want to stay.

We have centers of science here. We have the Carnegie Foundation for Scientific Research, and one of these days I am going to read the things that come from that research, when I have plenty of time. Then, we have a number of bureaus that I presume would be called bureaus of applied science. I don't refer to the science of government—that is altogether too inexact a science for an assembly like this—but I mean there are certain bureaus connected with this government that I hope present matters of interest to so learned and scientific a body as this. There are some of them that I would like to get my hands on and change, but there are limitations upon the power of the president of the United States and he can not do everything he would like. If I could change the Naval Observatory into a bureau, with a scientific professor at the head of it, I would do it to-morrow, but there are conservative gentlemen connected with the coordinate branches of the government that prevent.

Then, we have the Geological Survey and the Bureau of Chemistry and the Bureau of Entomology and the Bureau of Standards. I have no doubt there is a much longer list, which if I had only committed it to memory, I would give here for your studious consideration. But it is enough of a congeries of scientific nerves to justify a meeting of all the scientific bodies of the country here, and I hope that, as the government goes on and as congress becomes more liberal, those centers of scientific research, as many of them ought to be, will be improved so as to commend them to those of you who have theories as to what they ought to be under the auspices and with the necessary money which the United States can devote, if it will, to useful scientific research.

There is only one other remark which I wish to make to-night. In thinking over what there was between this audience and me, of any possible common knowledge, it occurred to me it was some experience in the exercise of the judicial faculty—that is, in your lives and in your branches of study and action, the search for truth without regard to the result you reach. That is what makes the administration of justice, what makes the work upon the bench so delightful—the absolute indifference to a result, with the weighing of the reasons pro and con and the final solution in accordance with eternal justice. The scientific man in his search for the truth of nature, in which he could wrest a rule from nature—a law—and in which he studies each individual instance to find that law, or, if he thinks he has found it, to make the instance square with the law, exercises the judicial faculty in a different branch, but with the same necessity for absolute adherence to truth in order that a useful result may be reached—no forcing of a theory, no construction of individual instances in order to make a theory, if those instances really don't fit into it; and if I know the weakness of the scientist or the temptation of a scientist, it is in reference to just such cases as that. Just as the judge upon the bench, with a weakness for deciding a case in advance, because he has heard one or two things in it, and then tries to square everything else that comes along to his original theory, so, too, with you. I have no doubt that what you have to struggle against is too quick recognition of something that leads you to discover a law. Subsequent study changes your mind about it and then you have to go back and build up a new theory or law, slowly, deliberately, but with strict adherence to truth and a desire to find the truth until you finally conquer and reach a conclusion that will bear the test of every instance.

Dr. Walcott, Secretary of the Smithsonian Institution, who was to have given the second address of welcome, was absent through illness.

President Bessey responded to the address of welcome, as follows:

Mr. President:

The members of the American Association for the Advancement of Science feel it to be a great honor to be welcomed to the capital of the country by its foremost citizen, the president of the United States.

In theory, at least, scientific men are like the men who frequent this city. They are here for a particular purpose. They work for the good of the community. They are not working for their own advancement. They are servants of the people. In all these things we are like the men who occupy legislative, judicial or executive positions in this capital city.

But, Mr. President, you will permit me to suggest, without unseemly egotism, that in the coming of this body of scientific men to the capital, we represent more than an invasion of an equal number of congressmen, judges and executive officers. If I may be allowed to say it, the latter represent present problems and needs, and deal only with the things of immediate importance. *They* are time servers often, or may be mostly in the better sense, but still servers of the present time. And no one will question the usefulness of the man who honestly and conscientiously serves his day and generation—his time.

To the man of science, the past, the present, the future, are spread out as the great panorama of nature on which are sketched the successive pictures of an eternity of change and evolution, whose beginning we do not know, and of whose end we have no conception. The politician works wholly in the present and for the present: the scientist's work carries him back through eons of duration to the dawn of eternity and forward through countless millenniums to a possible twilight time of the universe.

I am not saying that all scientists live in the eternities in this high fashion, nor am I denying that there are great minded statesmen who live

in a present which is illumined by the past, and beckoned by the future. No, I would not dare to claim so much for all who enroll in the ranks of science, and certainly we know of some men in public life whose breadth of view on the political questions of the day entitles them to the distinguished name of statesmen.

So, I stand here representing a body of men, in some respects like those who are visibly engaged in conducting the government of the country, but in other respects constituting a very different body, and it is on their behalf that I thank you sincerely for the cordial welcome you have extended to us.

But, while I speak, I am reminded that in these later years you have taken into the service of the government many hundreds of trained scientific men, and that these men by their labors are helping you to solve some of the most difficult problems that the government has had to face. With these men we, who assemble here today, have close ties and cordial sympathies. We remember that, although in government service, they are still scientific men, and that the problems you have placed before them are scientific problems. And we are anxious, Mr. President, that these brothers of ours shall have full opportunity for doing well the work put before them. We are glad that by the establishment of an enlightened system of laws controlling the civil service this body of scientists has been lifted out of the reach of petty personal politics. That has made it possible for the government to secure the services of so many men of the highest scientific attainments. It now remains for you, Mr. President, as the executive head over all the scientific bureaus, to see that the proper atmosphere is maintained in every bureau, and in every division where scientific men work. It has been hinted sometimes that, with all that has been done so well to keep the outside politician away from the scientist's laboratory, we have not wholly succeeded in keeping the inside politician from creating an atmosphere quite inimical to scientific work. For it must be remembered that scientific work is not all a digging out of facts as is so often supposed, but that the best of it calls for comparison, and reflection, and the careful drawing of conclusions, and this takes much time, and mental leisure, and a freedom from petty irritations.

If the men who have to solve the scientific problems of the government are to discharge their duties with the highest efficiency, they must have good appliances in the way of laboratories, experimental stations, apparatus, reference libraries and such other material necessities as pertain to the particular work they have in hand, but more than these, far more I may say, is the necessity for a congenial and sympathetic environment. And rumor has it that this helpful environment is not always present in the splendidly equipped divisions where it may be that the expert scientist is hampered and distracted by the necessity of making preliminary plans and preliminary projects, and final plans and final projects, and reports of progress, and preliminary reports, and final reports, and supplementary reports, to officials who neither understand the nature of the problems nor the scientific method of their study.

We shall agree that these things ought not to be, and I am assured by the interest you have taken in the scientific work of the country at large, and especially by what you have done here in the capital that you will gladly help to free the government scientists from such trammels as may have sometimes hedged them in. In these days when we are applying "scientific management" to business and the industries, certainly we ought to have a scientific management of our bureaus of science.

Mr. President, I regard it as a great honor to have had the privilege of responding to the welcome extended to this Association, and doubly so when that welcome has been given by you, whom we all delight to honor, as the president of this good country of ours.

The annual address was then delivered by the retiring president, Dr. A. A. Michelson, on "Recent Progress in Spectroscopic Methods," after which the meeting was adjourned. The addresses by retiring vice-presidents of sections were made as follows:

WEDNESDAY AFTERNOON.

Vice-president Frankforter before the Section of Chemistry. Title: The Resins and their Chemical Relations to the Terpenes.

Vice-president Harper before the Section of Botany. Title: Some Current Conceptions of the Germ Plasm.

THURSDAY AFTERNOON.

Vice-president Rosa before the Section of Physics. Title: Work of the Electrical Division of the Bureau of Standards.

Vice-president Rotch before the Section of Mechanical Science and Engineering. Title: Aerial Engineering.

Vice-president Hill before the Section of Education. Title: The Teaching of General Courses in Science.

FRIDAY MORNING.

Vice-president Moore before the Section of Mathematics and Astronomy. Title: On the Foundation of the Theory of Linear Integral Equations.

FRIDAY AFTERNOON.

Vice-president Dixon before the Section of Anthropology and Psychology. Title: The Independence of the Culture of the American Indian.

Vice-president Novy before the Section of Physiology and Experimental Medicine. Title: Disease Carriers.

Vice-president Burton before the Section of Social and Economic Science. Title: The Cause of High Prices.

Among other addresses which were given and meetings for general discussion which were held, the following may be mentioned:

On Thursday morning, there was a symposium on "The Ether" before the American Physical Society, which was led by Professor A. A. Michelson, who was followed by Professor A. G. Webster and others.

Dr. H. P. Talbot, chairman of the Division of Physical and Inorganic Chemistry, delivered an address on Wednesday afternoon on the "Privileges and Responsibility of the Chemical Analyst."

On Thursday evening, the president of the American Chemical Society, Dr. Alexander Smith, addressed the society on the subject, "An Early Physical Chemist." The address was followed by a lecture by Frank B. Kenrick and H. E. Howe, on "Lantern Experiments on Reactions in Heterogeneous Systems."

A symposium on "Drug Assay" was held on Friday morning by the Division of Pharmaceutical Chemistry, and one on "Mineral Wastes and Conservations" was held by the Division of Industrial Chemists and Chemical Engineers.

President R. S. Tarr, of the Association of American Geographers, gave his presidential address on Friday morning, on "The Glaciers and Glaciation of Alaska."

The Paleontological Society of America held a symposium Friday morning, on "Ten Years' Progress in Vertebrate Paleontology."

A symposium on "Instinct and Intelligence" was held on Wednesday morning by the American Psychological Association.

The subject of the address of President S. I. Franz of the Southern Society for Philosophy and Psychology, given on Thursday afternoon, was "New Phrenology" and that of President Seashore, of the American Psychological Association, given on Thursday evening, was "The Measure of a Singer." Professor J. H. Comstock addressed the Entomological Society of America on Wednesday evening on "Some Biological Features of Spiders."

The Section of Botany held a symposium on "Soils" on Wednesday afternoon, and the Botanical Society of America held a symposium on Thursday afternoon on "Modern Aspects of Paleobotany" after the retiring president, Dr. E. F. Smith, had delivered his presidential address on "Some Aspects of the Relationship of the Crowngall Disease to Human Cancer."

Dr. H. M. Belden gave his presidential address, on "Folk Poetry in America," on Thursday morning, before a joint session of Section H and the American Folk-Lore Society. In the afternoon, the joint session was in charge of the American Anthropological Association and a symposium was held on "Environment and Culture."

Presidential addresses by Dr. F. H. Giddings, president of the American Sociological Society, on the "Quality of Civilization" and by Dr. H. W. Farnum, president of the American Economic Association, on "The Economic Utilization of History," were given before a joint meeting of the two societies, on Wednesday evening.

On Friday afternoon, at a joint meeting of Section K with the American Physiological Society and the Society of American Bacteriologists, a symposium was held on "Acapnia and Shock."

The council of the American Association met daily, and the following are the chief items of business transacted:

Eighty-seven new members were elected into the association, and the following were elected fellows of the association: Frank H. Bailey, Fred Asa Barnes, John Fritz, A. A. Hamerschlag, Truman Michelson, F. Paul Anderson, Gardner Chace Anthony, Henry Sturgis Drinker, Louis Doremus Huntoon, William Christian Hood, Clement Ross Jones, John Price Jackson, James W. Lawrence, Edwin Hoyt Lockwood, Chas. E. Lucke, Francis C. Shenehon, Frederick W. Sperr, James T. Beard, Wm. J. Sharwood, Lulu Pace, Pliny E. Goddard, George Byron Gordon, Guy M. Whipple, Milo B. Hillegas, Frederick E. Farrington, Harold A. Wilson, Frank Wenner, F. C. Brown, E. A. Harrington, W. J. Fisher.

The report of the treasurer for 1911 was presented by the permanent secretary and was accepted and ordered placed on file. The financial report of the permanent secretary was presented, accepted and ordered published.

Prof. H. E. Summers was elected secretary *pro tem* of the council.

The following resolutions were adopted:

1. WHEREAS, the will of the late Jane M. Smith, of Pittsburgh, Pa., a former life member of the American Association for the Advancement of Science, contains the following bequest, namely:

"Seventeenth: I give and bequeath to the National Geographic Society of Washington, D. C., the sum of five thousand dollars ($5,000); to the American Forestry Association of Washington, D. C., the sum of five thousand dollars ($5,000); and to the American Association for the Advancement of Science of Washington, D. C., the sum of five thousand dollars ($5,000). I hereby direct that each of said sums be invested and the net income thereof be used for the purpose of creating life members of said three organizations in cases where worthy and competent persons are not able to pay for such memberships."

Be it therefore *Resolved*, That the permanent secretary of the association be and hereby is authorized to accept from the executors of Jane M. Smith, deceased, the legacy of five thousand dollars ($5,000) bequeathed by her to the American Association for the Advancement of Science as a fund whose income may be used in the payment of life-membership commutations in the association.

Resolved, That this fund be designated as the Jane M. Smith Fund of the American Association for the Advancement of Science.

Resolved, That said sum of five thousand dollars ($5,000) or any instalments thereof as they may be received, be turned over to the treasurer of the association for investment in such manner as the council of the association may direct.

Resolved, That the application of the income of the Jane M. Smith Fund in conformity with the wishes of the testatrix be determined by the council of the association after reference to and recommendations from the committee on policy.

2. WHEREAS, more than fifty per cent. of the injurious insects and plant diseases of first-class importance in the United States have been imported accidentally or in the course of commerce from other countries; and

WHEREAS, the United States of America is the only country among the great nations of the world which has no national quarantine or inspection service looking towards the prevention of such introductions:

Therefore, be it *Resolved*, That, in the opinion of the American Association for the Advancement of Science, the passage of a national quarantine and inspection law directed against the introduction and establishment of injurious insects and plant diseases from other parts of the world is a great desideratum at the present time.

The permanent secretary was directed to transmit copies of this resolution to the president of the United States, the president of the senate, the speaker of the house and the chairman of the committee on agriculture of the house of representatives.

3. *Resolved*, That the permanent secretary be instructed to present for nomination to fellowship the names of those members who are members of affiliated societies, which have already been designated as having qualifications for membership equivalent to fellowship in the association.

4. *Resolved*, That the council of the American Association for the Advancement of Science approves the creation of a Bureau of Astronomy with a scientific chief, which shall have charge of the Naval Observatory and of the Nautical Almanac, and respectfully requests that every endeavor be made to put into operation this plan in the interests of astronomy in the United States.

The permanent secretary is requested to forward a copy of this resolution to the president of the United States, to the president of the senate and to the speaker of the house of representatives.

5. *Resolved*, That Section I be given permission to meet at times and places different from those of the general association, whenever the sectional committee and the committee on policy so agree.

6. *Resolved*, That the treasurer of the association be authorized to invest $20,000 of the permanent funds of the association in such interest-bearing securities as the committee on policy of the association may approve.

The council instructed the permanent secretary to publish in February or March next a list of officers and members of the association. The resignations of N. L. Britton and W. H. Welch from the Committee on Policy were accepted and D. T. MacDougal and W. J. Humphreys were appointed to fill the vacancies.

The council authorized an increase in compensation of the present assistant to the permanent secretary from $100 a month to $125 a month.

A resolution was adopted recommending that future delegates from the association to international conferences and other delegate bodies be requested to submit brief reports to the council.

A report from Dr. Hutton Webster, delegate to the First Races Congress was read and ordered filed, and the report of Dr. B. Shimek, delegate to the Third National Conservation Congress, was presented and placed on file.

The council resolved that the American Association for the Advancement of Science reaffirms its approval of the establishment of a National Department of Public Health.

Senator Theodore E. Burton, Dr. Wm. Trelease and Dr. Henry B. Ward were elected to fill vacancies in the council.

The following grants were allowed for the ensuing year:

To the Concilium Bibliographicum	$200
To Mr. Frank C. Gates, A. B., for an investigation of the relation of transpiration to plant structure in bog plants, in collaboration with Professor F. C. Newcombe	100

The following amendments to the constitution were read as a formal notification in order that they may be acted upon next year under the provisions of the constitution:

Article 31. Substitute for existing article the following:

"The permanent secretary shall publish from time to time a list of officers and members of the association together with such other matter as the council may direct."

Article 3. In closing line omit the word "annual."

Article 6. Omit final sentence.

Article 19. Omit "in the annual volume of Proceedings."

Same article, omit "to the printing and distribution of the annual volume of Proceedings and all other."

Article 22. After "Education" add

"M, Agriculture," or

"M, Agriculture and Forestry," or

"M, Forestry,"

and

"And the council shall have power to create additional sections from time to time when deemed desirable."

Article 22. Lines 4 and 5, change from "H, Anthropology and Psychology" to "H, Anthropology."
Article 22. Abolish Section I.

At a meeting of the general committee held Friday evening, December 29, it was resolved to hold the next meeting at Cleveland, Ohio, the meeting to begin on the Monday of the week in which January 1, 1913, falls. It was further resolved to recommend to the next general committee that the meeting for 1913 be held in Atlanta, Georgia. It was further resolved that the committee looks with favor on the plan of holding a summer meeting on the Pacific coast in 1915.

The following officers were elected for the coming year:

President—Dr. Edward C. Pickering, director of the Harvard Astronomical Observatory.
Vice-presidents:
Sec. A—E. B. Van Vleck, University of Wisconsin.
Sec. B—Arthur Gordon Webster, Clark University.
Sec. C—W. Lash Miller, Toronto.
Sec. D—J. A. Holmes, Washington, D. C.
Sec. E—James E. Todd, University of Kansas.
Sec. F—William A. Locy, Northwestern University.
Sec. G—D. S. Johnson, Johns Hopkins University.
Sec. H—J. Walter Fewkes, Washington, D. C.
Sec. I—John Hays Hammond, New York.
Sec. K—J. J. R. Macleod, Cleveland, Ohio.
Sec. L—J. McKeen Cattell, Columbia University.
Secretaries of Sections:
Sec. B—W. J. Humphreys, Mount Weather, Va.
Sec. E—Geo. F. Kay, University of Iowa.
Sec. K—Waldemar Koch, University of Chicago.
General Secretary—H. E. Summers, Iowa State College.
Secretary of the Council—H. W. Springsteen, Western Reserve University.

JOHN ZELENY,
General Secretary.

REPORT OF THE TREASURER.

1911.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements, and disposition of funds of the Association for the year ending December 31, 1911.

Receipts have come into the keeping of the Treasurer from interest on invested funds to the aggregate amount of $642.31.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $512.94.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1911, is $21,394.59.

The details of receipts, disbursements, and disposition of funds are shown in the itemized statement on following pages.

DATED: *June 1, 1912.*

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1911. Jan. 1.	To balance from last account		$21,265.22
	To interest on funds deposited in banks, follows:		
	From Cambridge Savings Bank, Cambridge, Mass	$42.86	
	From Emigrant Industrial Savings Bank, New York, N. Y	119.48	
	From Metropolitan Savings Bank, New York, N. Y	119.72	
	From Union Square Savings Bank, New York, N. Y	104.24	
	From United States Trust Co., New York, N. Y.*	148.04	
	From United States Trust Co., Washington, D. C.†	107.97	
			642.31
	Total		$21,907.53

*Interest up to October 28, 1911.
†Successor to International Banking Corporation.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

CR.

1911.			
Feb. 15.	By grant paid to Geo. J. Peirce		$ 75.00
	By grant paid Concilium Bibliographicum Zoologicum		100.00
May 20.	By interest on 227 Life Memberships paid Permanent Secretary		337.94
Dec. 31.	By cash in banks as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,104.08	
	In Emigrant Industrial Savings Bank, New York, N. Y	3,094.24	
	In Metropolitan Savings Bank, New York, N. Y	3,106.49	
	In Union Square Savings Bank, New York, N. Y	3,061.71	
	In United States Trust Co., New York, N. Y	8,099.30	
	In United States Trust Co., Washington, D. C	2,780.94	
	In the Fifth Avenue Bank of New York, New York, N. Y	147.83	
			21,394.59
	Total		$21,907.53

I hereby certify that the foregoing account is correctly cast and properly vouched.

THEO. N. GILL,
Auditor.

REPORT OF THE PERMANENT SECRETARY.

The matters heretofore referred to in the report of the Permanent Secretary, in so far as they relate to the annual meeting, have been covered in the report of the executive proceedings prepared by the General Secretary, and duplication is avoided by omitting them under the present head.

The following is a comparative statement of the roll of members of record at the time of the annual meetings as noted:

	Surviving Founders.	Living Patrons.	Living Honorary Fellows.	Fellows.	Members.	Totals
Washington	3	2	3	1197	2787	3992
St. Louis	3	2	3	1195	2812	4005
Philadelphia	2	2	3	1253	2781	4041
New Orleans	2	2	3	1351	2963	4321
New York	2	2	3	1847	2644	4498
Chicago	2	2	2	1871	3237	5114
Baltimore	2	2	2	1969	4161	6136
Boston		2	1	2195	5732	7950
Minneapolis		2	1	2395	5614	8012
Washington		1	1	3065	4974	8041

L. O. HOWARD,
Permanent Secretary.

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1910,

DR.

To balance from last account		$3,329.39
Annual dues for 1911	$20,387.50	
Annual dues for 1912	208.90	
Annual dues for previous years	300.00	
Admission fees	2,475.00	
Associate fees	18.00	
Life membership fees	941.00	
		24,330.40
Publications	$16.35	
Bindings	9.18	
Unclassified receipts, including interest, postage, treasurer's payment on *Science* subscriptions for Life Members	581.35	
		606.88
		$28,266.67

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $4,231.22 is with the following Washington, D. C., banks:

American National Bank	$1,261.28
American Security & Trust Co	2,969.94
	$4,231.22

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1911.

CR.

By publications:		
Proceedings, Volumes 59, 60, 61	$2,597.87	
Publishers *Science*	14,417.92	
Preliminary Announcement	123.25	
		$17,139.04
By expenses Minneapolis meeting:		
Secretaries' expenses and commutations	$742.97	
Badges, assistance and general expenses	77.45	
		820.42
By office expenses, including propaganda work:		
Postage	$1,666.64	
Extra clerical help	871.55	
Circulars, blanks, printing, expressage, telegrams, telephone, stationery, etc	837.80	
		3,375.99
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,200.00	
		2,700.00
By balance to new account		4,231.22
		$28,266.67

THE SIXTY-FOURTH MEETING

CLEVELAND, OHIO.

December 30, 1912, to January 4, 1913.

PRESIDENTIAL ADDRESS.

For address of retiring President CHARLES E. BESSEY,* delivered at the Cleveland meeting, see *Science*, N. S. Vol. XXXVII, No. 940, January 3, 1913, pp. 1–13. Title: Some of the Next Steps in Botanical Science.

*Deceased.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.
EDWARD B. VAN VLECK, Madison.

Secretary.
GEORGE A. MILLER, Urbana.

Member of Council.
EDGAR O. LOVETT, Houston.

Sectional Committee.
EDWIN B. FROST, Vice-President, 1912; E. B. VAN VLECK, Vice-President, 1913; G. A. MILLER, Secretary; E. W. BROWN, 1 year; WINSLOW UPTON, 2 years; E. R. SMITH, 3 years; C. S. HOWE, 4 years; F. B. LITTELL, 5 years.

Member of General Committee.
H. T. EDDY, Minneapolis.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section A in *Science*, N. S. Vol. XXXVII, No. 941, January 10, 1913, pp. 76–77.

Owing to the absence of retiring Vice-President EDWIN B. FROST, his address on "The Spectroscopic Determination of Stellar Velocities, considered practically," was read by PROF. J. A. PARKHURST, and was published in *Popular Astronomy*, Vol. XXI, No. 4, April, 1913, Whole No. 204, pp. 189–207.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
ARTHUR G. WEBSTER, Worcester.

Secretary.
W. J. HUMPHREYS, Washington.

Member of Council.
THEODORE LYMAN, Cambridge.

Sectional Committee.
ROBERT A. MILLIKAN, Vice-President, 1912; ARTHUR G. WEBSTER, Vice-President, 1913; W. J. HUMPHREYS, Secretary; A. D. COLE, Preceding Secretary; A. P. CARMAN, 1 year; G. F. HULL, 2 years; E. L. NICHOLS, 3 years; ANTHONY ZELENY, 4 years; T. C. MENDENHALL, 5 years. *Ex officio:* W. F. MAGIE, President, American Physical Society; ERNEST MERRITT, Secretary, American Physical Society.

Member of General Committee.
F. A. SAUNDERS, Syracuse.

For address of retiring Vice-President ROBERT A. MILLIKAN, see *Science*, N. S. Vol. XXXVII, No. 943, January 24, 1913, pp. 119–133. Title: Atomic Theories of Radiation.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.
W. LASH MILLER, Toronto.

Secretary.
C. H. HERTY, Chapel Hill.

Member of Council.
R. B. MOORE, Washington.

Sectional Committee.
FRANK K. CAMERON, Vice-President, 1912; W. LASH MILLER, Vice-President, 1913; CHARLES H. HERTY, Secretary; C. F. BURGESS, 1 year; W. D. BANCROFT, 2 years; W. L. DUDLEY,* 3 years; C. L. ALSBERG, 4 years; LAUDER W. JONES, 5 years. *Ex officio:* A. D. LITTLE, President, American Chemical Society; C. L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.
W. D. BIGELOW, Washington.

(*No sessions of Section C were held at Cleveland and no papers were presented before the Section at this meeting.*)

*Deceased.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.
J. A. HOLMES, Washington.

Secretary.
G. W. BISSELL, East Lansing.

Member of Council.
O. P. HOOD, Pittsburgh.

Sectional Committee.
C. S. HOWE, Vice-President, 1912; J. A. HOLMES, 1913; G. W. BISSELL, Secretary; A. H. BLANCHARD, 1 year; C. M. WOODWARD,* 2 years; W. J. HUMPHREYS, 3 years; G. O. SQUIER, 4 years; W. W. CROSBY, 5 years.

Member of General Committee.
WILLIAM BOWIE, Washington.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section D in *Science*, N. S. Vol. XXXVII, No. 954, April 11, 1913, pp. 568–577.

(*Owing to the absence of retiring Vice-President Charles S. Howe, no vice-presidential address was delivered before this Section at the Cleveland meeting.*)

*Deceased.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
JAMES E. TODD, Lawrence.

Secretary.
GEORGE F. KAY, Iowa City.

Member of Council.
A. P. BRIGHAM, Hamilton.

Sectional Committee.
BOHUMIL SHIMEK, Vice-President, 1912; JAMES E. TODD, Vice-President, 1913; GEORGE F. KAY, Secretary; F. P. GULLIVER, Preceding Secretary; F. B. TAYLOR, 1 year; G. K. GILBERT, 2 years; C. W. HAYES, 3 years; A. G. LEONARD, 4 years; F. R. VAN HORN, 5 years. *Ex officio:* H. L. FAIRCHILD, President, G. S. A.; E. O. HOVEY, Secretary, G. S. A.; R. D. SALISBURY, President, A. A. G.; A. P. BRIGHAM, Secretary, A. A. G.

Member of General Committee.
U. S. GRANT, Evanston.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section E in *Science*, N. S. Vol. XXXVII, No. 951, March 21, 1913, pp. 456–460.

For address of retiring Vice-President BOHUMIL SHIMEK, see *Science*, same volume, No. 953, April 4, 1913, pp. 501–509. Title: Significance of Pleistocene Mollusks.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
W. A. LOCY, Evanston.

Secretary.
MAURICE A. BIGELOW, New York.

Member of Council.
EDWIN LINTON, Washington, Pa.

Sectional Committee.
H. F. NACHTRIEB, Vice-President, 1912; W. A. LOCY, Vice-President, 1913; M. A. BIGELOW, Secretary; C. C. NUTTING, 1 year; EDWIN LINTON, 2 years; H. F. NACHTRIEB, 3 years; HENRY B. WARD, 4 years; A. M. REESE, 5 years.

Member of General Committee.
T. W. GALLOWAY, Decatur.

For list of papers presented before the joint session of this Section with the American Society of Zoologists (Central Branch) at the Cleveland meeting, see report of Secretary in *Science*, N. S. Vol. XXXVII, No. 946, February 14, 1913, pp. 261–274.

For address of retiring Vice-President HENRY F. NACHTRIEB, see *Science*, same volume, No. 945, February 7, 1913, pp. 199–205. Title: Section F—Is it Worth While?

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
DUNCAN S. JOHNSON, Baltimore.

Secretary.
HENRY C. COWLES, Chicago.

Member of Council.
W. F. GANONG, Northampton.

Sectional Committee.
F. C. NEWCOMBE, Vice-President, 1912; DUNCAN S. JOHNSON, Vice President, 1913; HENRY C. COWLES, Secretary; F. E. LLOYD, Preceding Secretary; R. A. HARPER, 1 year; D. T. MACDOUGAL, 2 years; H. M RICHARDS, 3 years; L. H. PAMMEL, 4 years; W. J. V. OSTERHOUT, 5 years. *Ex officio*: L. R. JONES, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; G. P. CLINTON, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
E. C. JEFFREY, Cambridge.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section G in *Science*, N. S. Vol. XXXVIII, No. 966, July 4, 1913, p. 32.

For address of retiring Vice-President FREDERICK C. NEWCOMBE, see *Science*, N. S. Vol. XXXVII, No. 956, April 25, 1913, pp. 615–622. Title: The Scope and Method of State Natural History Surveys.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
J. WALTER FEWKES, Bureau of American Ethnology.

Secretary.
GEORGE GRANT MACCURDY, Yale University.

Member of Council.
ALES HRDLICKA, U. S. National Museum.

Sectional Committee.
GEORGE T. LADD, Vice-President, 1912; J. WALTER FEWKES, Vice-President, 1913; G. G. MACCURDY, Secretary; R. B. DIXON, 1 year; G. A. DORSEY, 2 years; G. B. GORDON, 3 years; A. M. TOZZER, 4 years; P. E. GODDARD, 5 years. *Ex officio:* J. A. LOMAX, President, American Folk-Lore Society; CHAS. PEABODY, Secretary, American Folk-Lore Society; EDWARD L. THORNDIKE, President, American Psychological Association; W. V. BINGHAM, Secretary, American Psychological Association.

Member of General Committee.
CHARLES PEABODY, Harvard University.

For list of papers presented before this Section at the Cleveland meeting, see report of Secretary of Section H in *Science*, N. S. Vol. XXXVII, No. 948, February 28, 1913, pp. 341–349.

For address of retiring Vice-President GEORGE T. LADD, see *Science*, same volume, No. 947, February 21, 1913, pp. 275–290. Title: The Study of Man.

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.
JOHN HAYS HAMMOND, New York.

Secretary.
SEYMOUR C. LOOMIS, New Haven.

Member of Council.
W. H. HALE, Brooklyn.

Sectional Committee.
J. PEASE NORTON, Vice-President, 1912; JOHN HAYS HAMMOND, Vice-President, 1913; SEYMOUR C. LOOMIS, Secretary; FRED C. CROXTON, Preceding Secretary; CHARLES A. CONANT, 1 year; IRVING FISHER, 2 years; JOHN F. CROWELL, 3 years; JOHN B. CLARK, 4 years; GERALD VAN CASTEEL, 5 years.

Member of General Committee.
WILLIAM R. LAZENBY, Columbus.

For address of retiring Vice-President J. PEASE NORTON, see *Science*, N. S. Vol. XXXVII, No. 944, January 31, 1913, pp. 159–170. Title: Comparative Measurements of the Changing Cost of Living.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.
J. J. R. MACLEOD, Cleveland.

Acting Secretary.
J. J. R. MACLEOD (in place of Waldemar Koch, deceased).

Member of Council.
VICTOR C. VAUGHAN, Ann Arbor.

Sectional Committee.
WILLIAM T. PORTER, Vice-President, 1912; J. J. R. MACLEOD, Vice-President, 1913; J. J. R. MACLEOD, Acting Secretary; ELIAS P. LYON, 1 year; WM. J. GIES, 2 years; WM. H. HOWELL, 3 years; THOMAS G. LEE, 4 years; ————, 5 years.

Member of General Committee.
CH. WARDELL STILES, Washington.

For list of papers presented before Section K at the Cleveland meeting, including the joint sessions of the section with the American Physiological Society and American Society of Biological Chemists, see report of Secretary in *Science*, N. S. Vol. XXXVII, No. 945, February 7, 1913, pp. 232–235.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.
J. McKeen Cattell, New York.

Secretary.
C. Riborg Mann, Chicago.

Member of Council.
C. H. Judd, Chicago.

Sectional Committee.
Edward L. Thorndike, Vice-President, 1912; J. McKeen Cattell, Vice-President, 1913; C. R. Mann, Secretary; C. H. Judd, 1 year; E. E. Brown, 2 years; John Dewey, 3 years; W. C. Bagley, 4 years; A. Ross Hill, 5 years.

Member of General Committee.
Edward C. Elliott, Madison.

For address of retiring Vice-President Edward L. Thorndike, see *Science*, N. S. Vol. xxxvii, No. 943, January 24, 1913, pp. 133–142. Title: Educational Diagnosis.

EXECUTIVE PROCEEDINGS

CLEVELAND MEETING.

December 30, 1912, to January 4, 1913.

EXECUTIVE PROCEEDINGS

Report of General Secretary.

The sixty-fourth meeting of the American Association for the Advancement of Science was held at Cleveland, Ohio, from December 30, 1912, to January 4, 1913, under the presidency of Dr. Edward Charles Pickering, director of the Astronomical Observatory of Harvard College, Cambridge, Mass.

The excellent arrangements made for the meetings, the good hotel and other public utilities of Cleveland, and unusually mild and pleasant weather through most of the week, combined to make the material environment one of the most agreeable experienced by the association. The number of members registered was 720, and in addition 150 from the affiliated societies; but as is well known this registration is always incomplete, especially in the case of members of affiliated societies who are not members of the American Association for the Advancement of Science. It is safe to say that the total in attendance must have exceeded 1,000.

The following societies, most of them affiliated with the American Association for the Advancement of Science, met in Cleveland at the same time:

Astronomical and Astrophysical Society of America.
American Mathematical Society.
American Physical Society.
American Society of Zoologists, Eastern and Central Branches.
American Association of Economic Entomologists.
Entomological Society of America.
American Nature Study Society.
School Garden Association of America.
American Microscopical Society.
Botanical Society of America.
American Phytopathological Society.
Botanists of the Central States.
Society for Horticultural Science.
American Association of Official Horticultural Inspectors.
Association of Official Seed Analysts.
American Psychological Association.
American Society of Biological Chemists.
American Society for Pharmacology and Experimental Therapeutics.
American Association of Anatomists.
American Physiological Society.
American Federation of Teachers of the Mathematical and Natural Sciences.
American Society of Naturalists.
Society of the Sigma Xi.

The opening general session held on the evening of Monday, December 30, in the ball room of the Hotel Statler, was called to order by the retiring president, Dr. Charles E. Bessey, who introduced the president-elect, Dr. Edward C. Pickering. Addresses of welcome were given by Hon. Newton D. Baker, mayor of Cleveland, Dr. Chas. F. Thwing, president of the

Western Reserve University, and Dr. F. M. Comstock, acting president of the Case School of Applied Science. Responses were made by President Pickering. The address of Mayor Baker was especially noteworthy as embodying ideals for the future of Cleveland which aroused the heartiest appreciation in the minds of all his hearers. Perhaps the strongest assurance that Cleveland will ultimately reach the eminent position predicted by him is the fact that it already has the foresight to elect such men to its highest offices. The annual address was then delivered by the retiring president of the association, Dr. Charles Edwin Bessey on "Some of the Next Steps in Botanical Science." It is printed in the issue of *Science* for January 3, 1913. The general session then adjourned and was followed by a reception to the members of the association and affiliated societies.

The annual addresses by retiring vice-presidents were made as follows:

MONDAY AFTERNOON.

Vice-president Shimek, before the Section of Geology and Geography. Title: Significance of the Pleistocene Mollusks.

TUESDAY AFTERNOON.

Vice-president Frost, before the Section of Mathematics and Astronomy. Title: The Spectroscopic Determination of Stellar Velocities, Considered Practically.

Vice-president Nachtrieb, before the Section of Zoology. Title: Section F—Is It Worth While?

Vice-president Newcombe, before the Section of Botany. Title: The Scope of State Natural History Surveys.

Vice-president Millikan, before the Section of Physics. Title: Atomic Theories of Radiation.

WEDNESDAY AFTERNOON.

Vice-president Porter, before the Section of Physiology and Experimental Medicine. Title: On the Function of Individual Cells in Nerve Centers.

Vice-president Thorndike, before the Section of Education. Title: Educational Diagnosis.

Vice-president Ladd, before the Section of Anthropology and Psychology. Title: The Study of Man.

THURSDAY AFTERNOON.

Vice-president Norton, before the Section of Social and Economic Science. Title: Comparative Measurements of the Changing Cost of Living.

Other addresses worthy of especial note were the following:

On Tuesday evening, Dr. W. J. Humphreys, of the U. S. Weather Bureau, gave an illustrated lecture, complimentary to the members of the American Association for the Advancement of Science and the affiliated societies and to the residents of Cleveland and vicinity on the subject of "Across the United States with the European Geographers."

On Monday afternoon, President Benjamin M. Davis, of the American Nature Study Society, gave an address entitled "A Summary of the Study of Agricultural Instruction in Rural Schools."

President A. B. Macallum, of the American Society of Biological Chemists, gave an address on Monday on "The Energy of Muscular Contraction: Thermodynamic or Chemodynamic."

Dr. Edward Lee Thorndike gave his address on Tuesday, as president of the American Psychological Association, on the subject of "Ideo-motor Action."

President W. T. Macoun, of the Society for Horticultural Science, also gave his address on Tuesday on the subject "The Relation of Climate to Horticulture."

On Wednesday evening, Dr. Philip P. Calvert, of the Entomological Society of America, gave a public address on the subject "An Entomologist in Costa Rica."

On Wednesday, President W. D. Hunter, of the American Association of Economic Entomologists, gave an address on the subject "Insects and Human Diseases."

On Wednesday afternoon, President John A. Lomax, of the Folk-Lore Society, gave an address on "Stories of an African Prince."

On Wednesday evening, Professor W. G. Farlow gave the address, as the retiring president of the Botanical Society of America, on "A Comparison of the Present Conditions in Botany with those in the Early Seventies."

On Thursday evening, Dr. T. J. Headlee gave his annual address, as president of the American Association of Official Horticultural Inspectors, on the subject of "The Federal Plant Quarantine Law."

On Thursday evening, Professor Edwin G. Conklin gave the annual address as president of the American Society of Naturalists on "Heredity and Responsibility."

A number of symposia and sessions devoted to matters of public interest were held by various sections and affiliated societies. Among these may be mentioned:

A symposium under the auspices of the American Society of Biological Chemists on "Some Recent Applications of Physical Chemistry in Biology."

A symposium under the auspices of the Botanical Society of America on "Permeability and Osmotic Pressure."

A symposium by the Phytopathological Society on "International Phytopathological Problems."

A symposium in charge of the American Society of Naturalists on "Adaptation."

The section on Social and Economic Science held a symposium on some economic problems of current interest.

A general interest program on sound and sound waves was held under the auspices of Section B.

A general interest program devoted largely to broad educational problems, including a discussion of the National University, was held under the auspices of Section L.

The Council met daily. Among the chief matters of business transacted were the following:

Seventy-five new members were elected. Two hundred and fifty-five members were elected fellows.

A report from the committee on policy was adopted, providing for the appointment of a committee of five to consider the future of Section C.

The amendment to the constitution, proposed last year, and providing for the establishment of "Section M. Agriculture," was adopted.

Amendments to the constitution were also proposed as follows, in order that they may be acted upon next year under the provisions of the constitution:

Article 23—Amend by omitting "*Mechanical Science and*" after the title "*D*," so as to read: "*D—Engineering.*"

Article 22—After "Section M. Agriculture" add "*The council shall have power to create additional sections from time to time, and to discontinue, combine, or rearrange existing sections.*"

The financial report of the permanent secretary was read, accepted and ordered printed.

The council adopted the following resolutions, relating to the proposed meeting at San Francisco in 1915:

Resolved, That a committee be appointed for the proposed San Francisco meeting of the association in 1915, this committee to be known as "The Committee on the Pacific Coast Meeting."

The president later appointed on this committee the following:

Wm. Wallace Campbell, Sc.D., LL. D., director of the Lick Observatory, Mt. Hamilton, Cal., *chairman;* John Casper Branner, Ph.D., LL.D., professor of geology, Leland Stanford University; Wm. Alanson Bryan, president Pacific Scientific Institution, Honolulu; Henry Smith Carhart, Sc.D., LL.D., Pasadena, Cal.; Charles Lincoln Edwards, Ph.D., University of Southern California, Los Angeles, Cal.; Professor Wm. Trufant Foster, president of Reed College, Portland, Ore.; Geo. Ellery Hale, Sc.D., LL.D., director of the Mt. Wilson Observatory, Pasadena, Cal.; Mellen Woodman Haskell, Ph.D., professor of mathematics, University of California; Eugene Woldemar Hilgard, Ph.D., emeritus director of the College of Agriculture, University of California; Geo. Holmes Howison, LL.D., professor of philosophy, University of California; Oliver Peebles Jenkins, professor of physiology, Stanford University; David Starr Jordan, M.D., Ph.D., LL.D., president of Stanford University; Thos. Franklin Kane, Ph.D., president of the University of Washington; Lyman Vernon Kellogg, professor of entomology, Stanford University; Chas. Atwood Kofoid, Ph.D., professor of zoology, University of California; Alfred L. Kroeber, Ph. D., Affiliated Colleges, San Francisco, Cal.; Andrew Cowper Lawson, professor of geology and mineralogy, University of California; E. Percival Lewis, Ph. D., professor of physics, University of California; Jas. Harvey McBride, M.D., Pasadena, Cal.; Daniel Trembly MacDougal, Ph.D., LL.D., Desert Botanical Laboratory, Tucson, Ariz.; Lillien J. Martin, professor of psychology, Stanford University; John Campbell Merriam, Ph.D., professor of paleontology, University of California; Agnes Claypool Moody, Ph.D., Berkeley, Cal.; John Muir, LL.D., Martinez, Cal.; Wm. Emerson Ritter, Ph. D., director of the Marine Biological Station, San Diego, Cal.; Harris Joseph Ryan, professor of electrical engineering, Stanford University; Fernando Sanford, professor of physics, Stanford University; William Albert Setchell, Ph.D., professor of botany, University of California; John M. Stillman, Ph. D., professor of chemistry, Stanford University; Benjamin Ide Wheeler, president of the University of California.

The committee on policy presented the following which was adopted:

Resolved, That it be recommended that the council authorizes the committee on the Pacific Coast meeting proposed for 1915, to hold in the name of the association meetings of its members resident in that region, for the purpose of considering the relations of the association to the exposition in question, and, if desirable, for the presentation of scientific programs. The expenses incurred shall be met from funds in the hands of the permanent secretary to such extent as may be approved by the committee on policy.

The following grant was allowed:

To the Concilium Bibliographicum..... $200

A report of progress in the study of fish scales was received from Prof. Theo. D. A. Cockerell to whom a grant of $75.00 had been made.

A report was received from Mr. Charles Peabody, delegate of the association to the XIV Congress International d'Anthropologie et Archeologie Prehistorique, which was held in Geneva, September 9–14, 1912.

The council passed the following resolution on "Expert Testimony," presented jointly by Dr. M. G. Lloyd and Dr. J. A. Holmes:

Resolved, That a special committee of five be appointed by the president to collect and study data covering the practise in different countries relative to the employment of expert testimony in court procedure, and to cooperate in joint committee with representatives of other national organizations in studying this question with a view to submitting recommendations for new state and national legislation concerning the same;

That the permanent secretary of the association extend to other national organizations interested in this subject an invitation from this association to appoint a member on said joint committee, and to cooperate further with this association in taking such action relative to this matter as will best promote public interest;

That this special committee of five shall report both its findings and the findings of the joint committee, and also such action as may be taken by other organizations, to the council of the American Association for the Advancement of Science at its meeting in January, 1914.

The council adopted the following, introduced by Professor H. B. Ward:

Resolved, That the council refer to the committee on policy the question of granting to secretaries of sections, the general secretary, and the secretary of the council, a mileage allowance in addition to the hotel allowance now made, and that the council empower the committee to take such action as may seem wise after investigation of the subject.

The following resolution, introduced by Dr. J. A. Holmes, was adopted by the council:

Resolved, That a special committee of five be appointed by the president to consider and report to the committee on policy a plan for the more rapid increase in the membership of the association.

That the committee on policy is hereby authorized to employ an associate secretary at a salary not to exceed $3,000 per annum, whose traveling expenses shall also be paid out of the treasury not to exceed $800 per annum and whose special duty it shall be to carry forward this extension work.

The committee on policy is hereby authorized to adopt, if necessary, such method as it may deem best for collecting additional funds for meeting such expenditure as may be needed.

The president later appointed on this committee the following: Messrs. J. A. Holmes, Chas. Baskerville, Hugh M. Smith, H. B. Ward, H. W. Springsteen.

The council adopted the following resolutions, introduced by Prof. J. McK. Cattell:

Resolved, That the council of the American Association for the Advancement of Science requests the educational institutions, government bureaus and other agencies engaged in scientific research to send one or more delegates to the annual convocation week meetings of the association and its affiliated societies, and that when possible the traveling expenses of the delegates be paid by the institutions which they represent.

Resolved, That a committee of three be appointed by the chair to draw up a list of institutions to which this resolution, together with a suitable letter, shall be sent by the permanent secretary.

The following were elected as members of the council to serve for three years: Messrs. J. McK. Cattell, J. M. Coulter and N. L. Britton.

At a meeting of the general committee held Thursday evening, January 2, invitations for future meetings were received from Atlanta, Philadelphia, Nashville, St. Louis, San Francisco, Leland Stanford University of California, Portland, Seattle, Niagara Falls, Cincinnati, Columbus and Denver.

It was resolved to hold the next meeting in Atlanta, Georgia. It was further resolved to recommend to the next general committee that the meeting for 1914 be held at Philadelphia, and that a summer meeting be held at San Francisco in 1915.

The following officers were elected for the coming year:

President: E. B. Wilson, Columbia University, New York.
Vice-presidents:
Section A—Frank Schlesinger, Allegheny Observatory.
Section B—A. D. Cole, Ohio State University.
Section C—A. A. Noyes, Massachusetts Institute of Technology.
Section D—O. P. Hood, U. S. Bureau of Mines, Pittsburgh.
Section E—J. S. Diller, U. S. Geological Survey.
Section F—A. G. Mayer, Carnegie Institution of Washington.
Section G—H. C. Cowles, University of Chicago.
Section H—W. B. Pillsbury, University of Michigan.
Section L—P. P. Claxton, U. S. Commissioner of Education.
General Secretary: H. W. Springsteen, Western Reserve University.
Secretary of the Council: W. A. Worsham, Jr., University of Georgia.
Secretaries of Sections:
Section A—F. R. Moulton, University of Chicago.
Section D—A. H. Blanchard, Columbia University.
Section F—H. V. Neal, Knox College.
Section G—W. J. V. Osterhout, Harvard University.
Section H—George G. MacCurdy, Yale University.
Section L—S. A. Courtis, Detroit, Michigan.
Place of next meeting: Atlanta, Georgia.
Date of next meeting: Convocation Week, 1913–14.

At the general session, held Friday morning at Western Reserve University, the following resolutions were adopted:

Resolved, That the American Association for the Advancement of Science extend to the authorities of Western Reserve University and to those of the Case School of Applied Science, to the Board of Education and the Director of Public Schools, to the Mayor of Cleveland, to the local committee in charge of the arrangements for the third Cleveland meeting of the association, now about to close, and especially to the ladies' reception committee, and to the authorities of the different industrial plants which have been opened to the inspection of members, the hearty thanks of the association for the admirable arrangements made, the excellent facilities offered, and the delightful courtesy and hospitality which have been extended by all and which have been highly instrumental in making this third Cleveland meeting one of the most successful which the association has held in recent years.

H. E. SUMMERS,
General Secretary.

REPORT OF THE TREASURER.

1912.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements and disposition of funds of the Association for the year ending December 31, 1912.

Receipts have come into the keeping of the Treasurer from two sources, namely, from Life Membership commutations and from interest on invested funds. The total amount of these receipts is $2,337.84.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $668.50.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1912, is $23,063.93.

The details of receipts, disbursements and disposition of funds are shown in the following itemized statement.

DATED: *August 1, 1913.*

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1912.			
Jan. 1.	To balance from last account		$21,394.59
Mar. 22.	To 13 Life Memberships		650.00
Dec. 27.	To 19 Life Memberships		950.00
Dec. 31.	To interest on funds deposited in banks, as follows:		
	From Cambridge Savings Bank, Cambridge, Mass	$40.40	
	From Emigrant Industrial Savings Bank, New York, N. Y	119.88	
	From Metropolitan Savings Bank, New York, N. Y	120.00	
	From Union Square Savings Bank, New York, N. Y	105.00	
	From United States Trust Co., New York, N. Y	240.06	
	From United States Trust Co., Washington, D. C	112.50	
			737.84
	Total		$23,732.43

I hereby certify that the foregoing account is correctly cast and properly vouched.

THEO. N. GILL,
Auditor.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Cr.

1912.			
June 6.	By grant paid Frank C. Gates		$100.00
June 6.	By grant paid Concilium Bibliographicum		200.00
June 6.	By interest on 244 Life Memberships paid to Permanent Secretary		368.50
Dec. 31.	By cash in banks as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,040.40	
	In Emigrant Industrial Savings Bank, New York, N. Y	3,114.12	
	In Metropolitan Savings Bank, New York, N. Y	3,120.00	
	In Union Square Savings Bank, New York, N. Y	3,105.00	
	In United States Trust Co., New York, N. Y	8,339.36	
	In United States Trust Co., Washington, D. C	2,893.44	
	In Fifth Avenue Bank of New York, New York, N. Y	1,451.61	
			23,063.93
	Total		$23,732.43

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1911,

DR.

To balance from last account		$4,231.22
To receipts from members:		
Annual dues, 1912	$20,477.00	
Annual dues, 1913	208.00	
Annual dues, previous years	438.00	
Admission fees	2,420.00	
Associate membership fees	42.00	
Life membership fees	450.00	
		24,035.00
To other receipts:		
Sale of publications	51.16	
Bindings	12.00	
Interest	66.98	
Payment from Treasurer towards subscriptions for *Science* for Life Members	368.50	
Miscellaneous receipts, including postage advanced by foreign members for *Science*	144.86	
		643.50
		$28,909.72

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $7,836.40 is with the following Washington, D. C., banks:

American Security and Trust Co	$3,915.42
American National Bank	3,920.98

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1912.

CR.

By publications:		
Publishers *Science*		$14,471.25
By expenses Washington meeting, including expenses of sectiona secretaries		397.92
By propaganda work outside of Washington office		196.43
By office expenses, including propaganda work:		
Postage	$1,048.84	
Permanent office supplies	165.27	
Printing, stationery and forms	507.02	
Extra help	598.00	
Miscellaneous expenses, including telegrams, expressage, etc	88.59	
		2,407.72
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,450.00	
		2,950.00
By miscellaneous disbursement:		
Treasurer for permanent fund		650.00
By balance to new account		7,836.40
		$28,909.72

THE SIXTY-FIFTH MEETING

ATLANTA, GEORGIA.

December 29, 1913, to January 3, 1914.

PRESIDENTIAL ADDRESS.

For address of retiring President EDWARD C. PICKERING, see *Science*, N. S. Vol. XXXIX, No. 992, January 2, 1914, pp. 1–9. Title: The Study of the Stars.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.
FRANK SCHLESINGER, Allegheny.

Secretary.
F. R. MOULTON, Chicago.

Member of Council.
JOHN A. BRASHEAR, Allegheny.

Sectional Committee.
Vice-President, Cleveland, E. B. VAN VLECK; Vice-President, Atlanta, FRANK SCHLESINGER; Secretary, F. R. MOULTON; Preceding Secretary, G. A. MILLER; WINSLOW UPTON, 1 year; E. R. SMITH, 2 years; C. S. HOWE, 3 years; F. B. LITTELL, 4 years; JOHN C. FIELDS, 5 years.

Member of General Committee.
T. M. FOCKE, Cleveland.

For address of retiring Vice-President EDWARD B. VAN VLECK, see *Science*, N. S. Vol. XXXIX, No. 995, January 23, 1914, pp. 113–124. Title: The Influence of Fourier's Series upon the Development of Mathematics.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.
ALFRED D. COLE, Columbus.

Secretary.
W. J. HUMPHREYS, Washington.

Member of Council.
THEODORE LYMAN, Cambridge.

Sectional Committee.
Vice-President, Cleveland, ARTHUR G. WEBSTER; Vice-President, Atlanta, ALFRED D. COLE; Secretary, W. J. HUMPHREYS; Preceding Secretary, A. D. COLE; GORDON F. HULL, 1 year; EDWARD L. NICHOLS, 2 years; ANTHONY ZELENY, 3 years; T. C. MENDENHALL, 4 years; ————, 5 years. *Ex officio:* B. OSGOOD PIERCE,* President, American Physical Society; A. D. COLE, Secretary, American Physical Society.

Member of General Committee.
F. A. SAUNDERS, Syracuse.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary of Section B in *Science*, N. S. Vol. XXXIX, No. 1015, June 12, 1914, pp. 881–882.

For address of retiring Vice-President ARTHUR GORDON WEBSTER, see *Science*, same volume, No. 993, January 9, 1914, pp. 42–51. Title: The Methods of the Physical Sciences: To what are they Applicable?

*Deceased.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.
CARL L. ALSBERG, Washington.

Secretary.
JOHN JOHNSTON, Washington.

Member of Council.
RICHARD B. MOORE, Denver.

Sectional Committee.
Vice-President, Cleveland, W. LASH MILLER; Vice-President, Atlanta, CARL L. ALSBERG; Secretary, JOHN JOHNSTON; Preceding Secretary, CHARLES H. HERTY; W. D. BANCROFT, 1 year; W. L. DUDLEY,* 2 years; C. L. ALSBERG, 3 years; LAUDER W. JONES, 4 years; ————, 5 years. *Ex officio:* ARTHUR D. LITTLE, President, American Chemical Society; CHARLES L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.
W. D. BIGELOW, Washington.

For list of papers presented before the joint session of this Section with the Georgia Section of the American Chemical Society at the Atlanta meeting, see report of Secretary in *Science*, N. S. Vol. XXXIX, No. 1001, March 6, 1914, pp. 362–364.

(Owing to the absence of retiring Vice-President W. LASH MILLER, there was no vice-presidential address delivered before this Section at the Atlanta meeting.)

*Deceased.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.
O. P. HOOD, Pittsburgh.

Secretary.
ARTHUR H. BLANCHARD, New York.

Member of Council.
G. W. BISSELL, East Lansing.

Sectional Committee.
Vice-President, Cleveland, JOSEPH A. HOLMES; Vice-President, Atlanta, O. P. HOOD; Secretary, A. H. BLANCHARD; Preceding Secretary, GEORGE W. BISSELL; C. M. WOODWARD,* 1 year; W. J. HUMPHREYS, 2 years; GEORGE O. SQUIER, 3 years; W. W. CROSBY, 4 years; WILLIAM BOWIE, 5 years.

Member of General Committee.
WILLIAM BOWIE, Washington.

*Deceased.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
JOSEPH S. DILLER, Washington.

Secretary.
GEORGE F. KAY, Iowa City.

Member of Council.
A. N. WINCHELL, Madison.

Sectional Committee.
Vice-President, Cleveland, JAMES E. TODD; Vice-President, Atlanta, J. S. DILLER; Secretary, GEORGE F. KAY; Preceding Secretary, F. P. GULLIVER; G. K. GILBERT, 1 year; C. W. HAYES, 2 years; A. G. LEONARD, 3 years; F. R. VAN HORN, 4 years; CHARLES H. GORDON, 5 years. *Ex officio:* EUGENE A. SMITH, President, Geological Society of America; EDMUND O. HOVEY, Secretary, Geological Society of America; HENRY G. BRYANT, President, Association of American Geographers; ALBERT P. BRIGHAM, Secretary, Association of American Geographers.

Member of General Committee.
EDWIN B. BRANSON, Columbia.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary of Section E in *Science*, N. S. Vol. XXXIX, No. 1002, March 13, 1914, pp. 398–405.

For address of retiring Vice-President JAMES E. TODD, see *Science*, same volume, No. 999, February 20, 1914, pp. 263–274. Title: The Pleistocene History of the Missouri River.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
ALFRED G. MAYER, Tortugas.

Secretary.
HERBERT V. NEAL, Tufts College.

Member of Council.
C. C. NUTTING, Iowa City.

Sectional Committee.
Vice-President, Cleveland, W. A. LOCY; Vice-President, Atlanta, ALFRED G. MAYER; Secretary, HERBERT V. NEAL; Preceding Secretary, M. A. BIGELOW; EDWIN LINTON, 1 year; H. F. NACHTRIEB, 2 years; HENRY B. WARD, 3 years; A. M. REESE, 4 years; JACOB REIGHARD, 5 years.

Member of General Committee.
HENRY B. WARD, Urbana.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary in *Science*, N. S. Vol. XXXIX, No. 1001, March 6, 1914, pp. 364–370.

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
HENRY C. COWLES, Chicago.

Secretary.
W. J. V. OSTERHOUT, Cambridge.

Member of Council.
LEWIS R. JONES, Madison.

Sectional Committee.
Vice-President, Cleveland, DUNCAN S. JOHNSON; Vice-President, Atlanta, HENRY C. COWLES; Secretary, W. J. V. OSTERHOUT; Preceding Secretary, H. C. COWLES; D. T. MACDOUGAL, 1 year; H. M. RICHARDS, 2 years; L. H. PAMMEL, 3 years; W. J. V. OSTERHOUT, 4 years; F. C. NEWCOMBE, 5 years. *Ex officio:* D. H. CAMPBELL, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; F. C. STEWART, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
ROBERT A. HARPER, New York.

For list of papers presented before this Section at the Atlanta meeting, see report of Secretary of Section G in *Science*, N. S. Vol. XXXIX, No. 1002, March 13, 1914, p. 405.

For address of retiring Vice-President DUNCAN S. JOHNSON, see *Science*, N. S. Vol. XXXIX, No. 1000, February 27, 1914, pp. 299–319. Title: The Evolution of a Botanical Problem.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
WALTER B. PILLSBURY, Ann Arbor.

Secretary.
GEORGE G. MACCURDY, New Haven.

Acting Secretary.
E. K. STRONG, JR., New York.

Member of Council.
CLARK WISSLER, New York.

Sectional Committee.
Vice-President, Cleveland, J. WALTER FEWKES; Vice-President, Atlanta, WALTER B. PILLSBURY; Secretary, GEORGE G. MACCURDY; G. A. DORSEY, 1 year; GEORGE B. GORDON, 2 years; A. M. TOZZER, 3 years; P. E. GODDARD, 4 years; R. S. WOODWORTH, 5 years. *Ex officio:* JOHN A. LOMAX, President, American Folk-Lore Society; CHARLES PEABODY, Secretary, American Folk-Lore Society; HOWARD C. WARREN, President, American Psychological Association; W. V. BINGHAM, Secretary, American Psychological Association; ROLAND B. DIXON, President, American Anthropological Association; GEORGE G. MACCURDY, Secretary, American Anthropological Association.

Member of General Committee.
CHARLES PEABODY, Cambridge.

For list of papers presented before this Section at the Atlanta meeting, see report of Acting Secretary of Section H in *Science*, N. S. Vol. XXXIX, No. 1006, April 10, 1914, pp. 546–550.

(Owing to the absence of retiring Vice-President FEWKES, there was no vice-presidential address delivered before Section H at the Atlanta meeting.)

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.
JUDSON G. WALL, New York.

Secretary.
SEYMOUR C. LOOMIS, New Haven.

Member of Council.
W. R. LAZENBY, Columbus.

Sectional Committee.
Vice-President, Cleveland, JOHN HAYS HAMMOND; Vice-President, Atlanta, JUDSON G. WALL; Secretary, SEYMOUR C. LOOMIS; Preceding Secretary, FRED C. CROXTON; IRVING FISHER, 1 year; JOHN F. CROWELL, 2 years; JOHN B. CLARK, 3 years; GERALD VAN CASTEEL, 4 years; J. PEASE NORTON, 5 years.

Member of General Committee.
W. H. HALE, Brooklyn.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.
THEODORE HOUGH, Charlottesville.

Secretary.
DONALD R. HOOKER, Baltimore.

Member of Council.
VICTOR C. VAUGHAN, Ann Arbor.

Sectional Committee.
Vice-President, Cleveland, J. J. R. MACLEOD; Vice-President, Atlanta, THEODORE HOUGH; Secretary, DONALD R. HOOKER; WILLIAM J. GIES, 1 year; WILLIAM H. HOWELL, 2 years; THOMAS G. LEE, 3 years; ————, 4 years; ————, 5 years.

Member of General Committee.
CH. WARDELL STILES, Washington.

For list of papers presented before this Section at the Atlanta meeting, see report of L. O. HOWARD, secretary pro. tem., in *Science*, N. S. Vol. XXXIX, No. 1013, May 29, 1914, pp. 794–796.

For address of retiring Vice-President JOHN J. R. MACLEOD, see *Science*, N. S. Vol. XXXIX, No. 993, January 9, 1914, pp. 51–59. Title: The Teaching of Physiology to Medical Students.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.
P. P. CLAXTON, Washington.

Secretary.
STUART A. COURTIS, Detroit.

Member of Council.
CHARLES RIBORG MANN, Chicago.

Sectional Committee.
Vice-President, Cleveland, J. MCKEEN CATTELL; Vice-President, Atlanta, P. P. CLAXTON; Secretary, STUART A. COURTIS; Preceding Secretary, C. R. MANN; ELMER E. BROWN, 1 year; JOHN DEWEY, 2 years; WILLIAM C. BAGLEY, 3 years; A. ROSS HILL, 4 years; WALTER F. DEARBORN, 5 years.

Member of General Committee.
H. AUSTIN AIKINS, Cleveland.

For address of retiring Vice-President JAMES MCKEEN CATTELL, see *Science*, N. S. Vol. XXXIX, No. 996, January 30, 1914, pp. 154–164. Title: Science, Education and Democracy.

EXECUTIVE PROCEEDINGS

ATLANTA MEETING.

December 29, 1913, to January 3, 1914.

EXECUTIVE PROCEEDINGS

Report of General Secretary.

Under the presidency of Dr. Edmund B. Wilson, professor of zoology in Columbia University, the sixty-fifth meeting of the American Association for the Advancement of Science, and the twelfth of the "Convocation week" meetings, was held in Atlanta from December 29, 1913, to January 3, 1914.

It seems to be almost impossible to obtain an accurate record of the attendance, chiefly because the members of the affiliated societies do not register. The number actually registered at headquarters was 324 members of the association, 54 members of affiliated societies and 16 delegates. Perhaps the total attendance, based to be sure on estimation, was about 500, a very good number when one remembers that Atlanta is rather out of the beaten track of tourists, but, even if the number in attendance was not as great as at some of the previous meetings, and notwithstanding the rainy weather, the admirable arrangements and the enthusiastic reception accorded were more than compensation. With that characteristic hospitality of the south, the people of Atlanta extended to the visitors a welcome that will long be remembered.

The following affiliated societies met during the week:

Astronomical and Astrophysical Society of America.
Botanical Society of America.
American Association of Economic Entomologists.
Entomological Society of America.
American Microscopical Society.
American Physical Society.
American Phytopathological Association.
School Garden Association of America.
Southern Society for Philosophy and Psychology.

On Monday evening, the association formally opened its convention by the general session in Taft Hall of the auditorium-armory building. The meeting was called to order by the retiring president, Dr. Edward C. Pickering, who introduced the president of the meeting, Dr. Edmund B. Wilson. If anything was needed to assure the association of its hearty welcome, surely the letter of greeting sent by Governor Slaton, and the address of Mayor Woodward amply sufficed. After President Wilson's reply, Dr. Pickering delivered the annual address on "The Study of the Stars." This meeting was preceded in a delightful way by an organ recital through the courtesy of the Atlanta Musical Festival Association, Mr. Chas. A. Sheldon, Jr., being the organist. After the meeting, the members and visiting ladies were entertained by a reception at the University Club.

On Tuesday from five to seven o'clock the visitors were received by Governor and Mrs. John M. Slaton at the governor's mansion.

Two evening lectures of the popular kind, complimentary to the members of the American Association and affiliated societies and to the citizens of Atlanta, were delivered. On Tuesday, Dr. Ch. Wardell Stiles, of the U. S. Public Health Service, discussed "The Health of the Mother in the South," and on the following evening the subject of the lecture by Professor Chas. E. Munroe, of the George Washington University, was "The Explosive Resources of the Confederacy during the War and Now: A Chapter in Chemical History."

Numerous smokers, luncheons, and dinners and several excursions to near-by institutions and places of historical and scientific interest helped to add to the social pleasure of the week.

The different sections of the association and the affiliated societies met morning and afternoon for the reading of papers throughout the week or until the lists of titles were finished.

The vice-presidential addresses given before the sections were as follows:

Section A: "The Influence of Fourier's Series upon the Development of Mathematics," by Edward B. Van Vleck.
Section B: "The Methods of Science: To What do they Apply?" by Arthur G. Webster.
Section D: "Safety and the Prevention of Waste in Mining and Metallurgical Operations," by J. A. Holmes.
Section E: "Pleistocene History of the Missouri River," by J. E. Todd.
Section F: "The Story of Human Lineage," by William A. Locy.
Section G: "The Evolution of a Botanical Problem," by Duncan S. Johnson.
Section I: "The Development of our Foreign Trade," by John Hays Hammond.
Section K: "The Physiological Instruction of Medical Students," by J. J. R. Macleod. (Read by title.)
Section L: "Science, Education and Democracy," by J. McKeen Cattell.

Among the more important actions taken by the Council, the following may be mentioned:

280 members and 200 fellows were elected.

On motion, the following resolutions offered by the committee on policy were adopted:

Resolved, That the council looks with favor upon the orginazation of a Brazilian division of the association, and that a committee on organization be appointed for this work with Snr. Eduardo Braga as chairman.
Resolved, That the Society of American Foresters be formally accepted as an affiliated society.
Resolved, That the council of the American Association for the Advancement of Science authorizes the establishment of local branches of the association in places where the members are prepared to conduct branches which will forward the objects of the association.
Resolved, That the standing committee on organization and membership be instructed to promote the establishment of such local branches.

The associate secretary for the south made an interesting report of the work which he had undertaken towards stimulating an interest in the asso-

ciation in the south. He reported correspondence with several hundred men in southern institutions and a visit to several of the educational institutions of the south.

Dr. MacDougal reported news concerning the Pacific Coast Division with reference to the Pacific Coast meeting. A committee of thirty from this division has been given power to organize for the specific purpose of making preparations for this meeting. He also stated that the Pacific Association of Scientific Societies, composed of three or four hundred members, had also taken this matter up. Members should come prepared to spend at least ten days in California, as meetings would probably be held in three or four different places in the state. The time of holding this meeting was discussed but no definite action taken.

Dr. Pickering and Dr. Holmes on behalf of the committee on expert testimony reported progress, but postponed its final report.

The permanent secretary read a letter from Dr. J. S. Diller, asking that a grant be made for the publication of the twenty-four papers read before Section E, on the Mineral Resources of the Southern States. On motion a grant of $200 was appropriated for this purpose.

On motion, the permanent secretary and the editor of *Science* were instructed to prepare a directory of the funds available for research work for the information of those desiring to make application for the same.

The president announced the members he had appointed on the committee of one hundred on scientific research authorized at the spring meeting of the council.

On motion, a list of the members of the association, the constitution and the official proceedings were ordered printed during the year, and every three years thereafter provided funds are available.

At the meeting of the general committee, the following officers were elected:

President: Chas. W. Eliot, president emeritus of Harvard University.
Vice-presidents:
Section A: Henry S. White, Vassar College.
Section B: Anthony Zeleny, University of Minnesota.
Section D: Alfred Noble, New York.
Section E: U. S. Grant, Northwestern University.
Section F: Frank R. Lillie, University of Chicago.
Section G: G. P. Clinton, Connecticut Agricultural Experiment Station.
Section H: Clark Wissler, American Museum of Natural History.
Section K: R. M. Pearce, University of Pennsylvania.
Section L: Paul H. Hanus, Harvard University.
Section M: L. H. Bailey, Cornell University.
General Secretary: W. A. Worsham, Jr., State College of Agriculture, Athens.
Secretary of Council: Henry Skinner, Academy of Natural Sciences, Philadelphia.
Associate Secretary for the South: R. M. Ogden, University of Tennessee.

At this meeting it was decided to hold the next meeting of the association at Philadelphia, during convocation week, 1914–1915.

On motion, it was recommended to future general committees that the meeting of 1915–16 be held at Toronto and the meeting of 1916–17 in New York. It was further recommended that the New York meeting be a special meeting in which all affiliated societies should be invited to take part and that such general convocation-week meetings should be held at intervals of four years, the second to be in Chicago in 1920–1921.

At its last meeting, the council passed a resolution extending its warmest appreciation and thanks to the local committee, to the citizens of Atlanta and all those who contributed so ably and willingly to the comfort and entertainment of the members.

Atlanta has been called the metropolis of the "New South" and those visitors who found time to visit some of its many interesting places and nstitutions went away with new impressions that were not the least assets of a most enjoyable and successful meeting.

H. W. SPRINGSTEEN,
General Secretary.

REPORT OF THE TREASURER.

1913.

In compliance with Article 15 of the Constitution, and by direction of the Council, I have the honor to submit the following report, showing receipts, disbursements and disposition of funds of the Association for the year ending December 31, 1913.

Receipts have come into the keeping of the Treasurer from three sources, namely, from Life Membership commutations, from interest on invested funds, and from gifts to the Association. The total amount of these receipts is $7,004.75.

Disbursements made in accordance with the direction of the Council amount to an aggregate of $417.30.

The total amount of funds of the Association deposited in banks and subject to the order of the Treasurer December 31, 1913, is $29,651.38.

The details of receipts, disbursements and disposition of funds are shown in the following itemized statement.

DATED: *August 1, 1914.*

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

DR.

1913.			
Jan. 1.	To balance from last account		$23,063.93
Feb. 13.	To 9 Life Memberships		450.00
May 5.	To contribution of H. E. Sargent to Research Fund		25.00
Aug. 6.	To amount of Jane M. Smith Fund		5,000.00
Nov. 6.	To 16 Life Memberships		800.00
Dec. 31.	To interest on funds in banks, as follows:		
	From Cambridge Savings Bank, Cambridge, Mass	$40.40	
	From Emigrant Industrial Savings Bank, New York, N. Y	119.78	
	From Metropolitan Savings Bank, New York, N. Y	112.50	
	From Union Square Savings Bank, New York, N. Y	105.00	
	From United States Trust Co., New York, N. Y	274.74	
	From The Munsey Trust Co., Washington, D. C	77.33	
			729.75
	Total		$30,068.68

I hereby certify that the foregoing account is correctly cast and properly vouched.

HERBERT A. GILL,
Auditor.

THE TREASURER IN ACCOUNT WITH THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

CR.

1913.			
July 25.	By interest on 242 Life Memberships paid Permanent Secretary		$417.30
Dec. 31.	By cash in banks, as follows:		
	In Cambridge Savings Bank, Cambridge, Mass	$1,040.40	
	In Emigrant Industrial Savings Bank, New York, N. Y	3,108.90	
	In Metropolitan Savings Bank, New York, N. Y	3,112.50	
	In Union Square Savings Bank, New York, N. Y	3,105.00	
	In United States Trust Co., New York, N. Y	15,114.10	
	In The Munsey Trust Co., Washington, D. C	2,970.77	
	In Fifth Avenue Bank of New York, New York, N. Y	1,199.71	
			29,651.38
	Total		$30,068.68

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1912,

DR.

To balance from last account		$7,836.40
Admission fees	$2,760.00	
Annual dues, 1913	20,891.75	
Annual dues, 1914	119.00	
Annual dues, previous years	302.00	
Associate fees	15.00	
Life membership fees	800.00	
Publications	57.25	
Bindings	5.00	
Jane M. Smith Fund	5,000.00	
Interest	78.69	
Unclassified receipts, including postage and Treasurer's payment on *Science* subscriptions for Life Members	615.53	
		30,644.22
		$38,480.62

The foregoing account has been examined and found correct, the expenditures being supported by proper vouchers. The balance of $8,079.57 is with the following Washington, D. C., banks:

American Security & Trust Co	$3,994.11
American National Bank of Washington	4,085.46
	$8,079.57

THEO. N. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1913.

CR.

By publications:		
Publishers *Science*	$14,796.45	
Proceedings, Vol. 62	1,901.09	
		$16,697.54
By expenses Cleveland meeting:		
Secretaries' expenses and commutations	540.09	
Badges, assistance and general expenses	115.71	
		655.80
By office expenses, including propaganda work:		
Postage	1,623.51	
Stationery, circulars and miscellaneous printing	789.10	
Extra clerical help	653.85	
Engraving and printing certificates	105.00	
Telegrams, telephone, expressage, office supplies, etc	463.25	
		3,634.71
By salaries:		
Permanent Secretary	1,500.00	
Assistant Secretary	1,500.00	
		3,000.00
By miscellaneous disbursements:		
To Treasurer (Jane M. Smith Fund)	5,000.00	
To Treasurer (Life Membership fees)	1,400.00	
To dues returned	13.00	
		6,413.00
By balance to new account		8,079.57
		$38,480.62

THE SIXTY-SIXTH MEETING

PHILADELPHIA, PA.

December 28, 1914, to January 2, 1915

PRESIDENTIAL ADDRESS.

For address of retiring President EDMUND B. WILSON, delivered at the Philadelphia meeting, see *Science*, N. S. Vol. XLI, No. 1044, January 1, 1915, pp. 1–11. Title: Some Aspects of Progress in Modern Zoology.

OFFICERS OF SECTION A.

Vice-President and Chairman of the Section.

HENRY SEELY WHITE, Poughkeepsie.

Secretary.

F. R. MOULTON, Chicago.

Member of Council.

ERIC DOOLITTLE, Upper Darby.

Sectional Committee.

Vice-President, Atlanta, FRANK SCHLESINGER; Vice-President, Philadelphia, H. S. WHITE; Secretary, F. R. MOULTON; Preceding Secretary, G. A. MILLER; E. R. SMITH, 1 year; C. S. HOWE, 2 years; F. B. LITTELL, 3 years; JOHN C. FIELDS, 4 years; ARMIN O. LEUSCHNER, 5 years.

Member of General Committee.

HENRY N. RUSSELL, Princeton.

For address of retiring Vice-President FRANK SCHLESINGER, see *Science*, N. S. Vol. XLI, No. 1047, January 22, 1915, pp. 109–117. Title: The Object of Astronomical and Mathematical Research.

OFFICERS OF SECTION B.

Vice-President and Chairman of the Section.

ANTHONY ZELENY, Minneapolis.

Secretary.

W. J. HUMPHREYS, Washington.

Member of Council.

KARL E. GUTHE, Ann Arbor.

Sectional Committee.

Vice-President, Atlanta, ALFRED D. COLE; Vice-President, Philadelphia, ANTHONY ZELENY; Secretary, W. J. HUMPHREYS; Preceding Secretary, A. D. COLE; EDWARD L. NICHOLS, 1 year; ANTHONY ZELENY, 2 years; T. C. MENDENHALL, 3 years; D. C. MILLER, 4 years; GEORGE W. STEWART, 5 years. *Ex officio:* B. OSGOOD PEIRCE,* President, American Physical Society; A. D. COLE, Secretary, American Physical Society.

Member of General Committee.

DAYTON C. MILLER, Cleveland.

*Deceased.

For list of papers presented before the joint session of Section B with the American Physical Society, see report of Secretary in *Science*, N. S. Vol. XLI, No. 1050, February 12, 1915, pp. 259–260.

For address of retiring Vice-President ALFRED D. COLE, see *Science*, same volume, No. 1046, January 15, 1915, pp. 73–81. Title: Recent Evidence for the Existence of the Nucleus Atom.

OFFICERS OF SECTION C.

Vice-President and Chairman of the Section.

EDGAR F. SMITH, Philadelphia.

Secretary.

JOHN JOHNSTON, Washington.

Member of Council.

RICHARD B. MOORE, Denver.

Sectional Committee.

Vice-President, Atlanta, CARL L. ALSBERG; Vice-President, Philadelphia, EDGAR F. SMITH; Secretary, JOHN JOHNSTON; Preceding Secretary, CHARLES H. HERTY; W. L. DUDLEY,* 1 year; C. L. ALSBERG, 2 years; LAUDER W. JONES, 3 years; JULIUS STIEGLITZ 4 years; PHILIP B. HAWK, 5 years. *Ex officio:* ARTHUR D. LITTLE, President, American Chemical Society; CHARLES L. PARSONS, Secretary, American Chemical Society.

Member of General Committee.

W. D. BIGELOW, Washington.

*Deceased.

For list of papers presented before this Section at the Philadelphia meeting, see report of Secretary of Section C in *Science*, N. S. Vol. XLI No. 1054, March 12, 1915, pp. 404–405.

OFFICERS OF SECTION D.

Vice-President and Chairman of the Section.

FREDERICK WINSLOW TAYLOR,* Philadelphia.

Secretary.

ARTHUR H. BLANCHARD, New York.

Member of Council.

WILLIAM BOWIE, Washington.

Sectional Committee.

Vice-President, Atlanta, O. P. HOOD; Vice-President, Philadelphia, F. W. TAYLOR*; Secretary, A. H. BLANCHARD; Preceding Secretary, GEORGE W. BISSELL; W. J. HUMPHREYS, 1 year; GEORGE O. SQUIER, 2 years; W. W. CROSBY, 3 years; WILLIAM BOWIE, 4 years; ROBERT H. FERNALD, 5 years.

Member of General Committee.

ROBERT H. FERNALD, Philadelphia.

*Deceased.

For address of retiring Vice-President OZNI P. HOOD, see *Science*, N. S. Vol. XLI, No. 1048, January 29, 1915, pp. 154–157. Title: Safety Engineering.

OFFICERS OF SECTION E.

Vice-President and Chairman of the Section.
ULYSSES S. GRANT, Evanston.

Secretary.
GEORGE F. KAY, Iowa City.

Member of Council.
E. H. SELLARDS, Tallahassee.

Sectional Committee.

Vice-President, Atlanta, J. S. DILLER; Vice-President, Philadelphia, U. S. GRANT; Secretary, GEORGE F. KAY; Preceding Secretary, F. P. GULLIVER; C. W. HAYES, 1 year; A. G. LEONARD, 2 years; F. R. VAN HORN, 3 years; CHARLES H. GORDON, 4 years; DAVID WHITE, 5 years. *Ex officio:* EUGENE A. SMITH, President, Geological Society of America; EDMUND O. HOVEY, Secretary, Geological Society of America; HENRY G. BRYANT, President, Association of American Geographers; ALBERT P. BRIGHAM, Secretary, Association of American Geographers.

Member of General Committee.
S. W. MCCALLIE, Atlanta.

For address of retiring Vice-President JOSEPH S. DILLER, see *Science* N. S. Vol. XLI, No. 1045, January 8, 1915, pp. 48–57. Title: The Relief of our Pacific Coast.

OFFICERS OF SECTION F.

Vice-President and Chairman of the Section.
FRANK R. LILLIE, Chicago.

Secretary.
HERBERT V. NEAL, Tufts College.

Member of Council.
E. W. GUDGER, Greensboro.

Sectional Committee.
Vice-President, Atlanta, A. G. MAYER; Vice-President, Philadelphia, F. R. LILLIE; Secretary, HERBERT V. NEAL; Preceding Secretary, M. A. BIGELOW; H. F. NACHTRIEB, 1 year; HENRY B. WARD, 2 years; A. M. REESE, 3 years; JACOB REIGHARD, 4 years; HERBERT OSBORN, 5 years.

Member of General Committee.
C. C. NUTTING, Iowa City.

For address of retiring Vice-President ALFRED G. MAYER, see *Science*, N. S. Vol. XLI, No. 1046, January 15, 1915, pp. 81–82. Title: The Research Work of the Tortugas Laboratory of the Carnegie Institution of Washington.

OFFICERS OF SECTION G.

Vice-President and Chairman of the Section.
GEORGE P. CLINTON, New Haven.

Secretary.
W. J. V. OSTERHOUT, Cambridge.

Member of Council.
LEWIS R. JONES, Madison.

Sectional Committee.
Vice-President, Atlanta, HENRY C. COWLES; Vice-President, Philadelphia, G. P. CLINTON; Secretary, W. J. V. OSTERHOUT; Preceding Secretary, H. C. COWLES; D. T. MACDOUGAL, 1 year; H. M. RICHARDS, 2 years; L. H. PAMMEL, 3 years; W. J. V. OSTERHOUT, 4 years; F. C. NEWCOMBE, 5 years. *Ex officio:* D. H. CAMPBELL, President, Botanical Society of America; GEORGE T. MOORE, Secretary, Botanical Society of America; F. C. STEWART, President, American Phytopathological Society; C. L. SHEAR, Secretary, American Phytopathological Society.

Member of General Committee.
ROBERT A. HARPER, New York.

For list of papers presented before the joint session of this Section with the Botanical Society of America and the American Phytopathological Society, at the Philadelphia meeting, see report of Secretary of Section G, in *Science*, N. S. Vol. XLI, No. 1049, February 5, 1915, p. 205.

For address of retiring Vice-President HENRY C. COWLES, see *Science*, same volume, No. 1050, February 12, 1915, pp. 223–229. Title: The Economic Trend of Botany.

OFFICERS OF SECTION H.

Vice-President and Chairman of the Section.
CLARK WISSLER, New York.

Acting Secretary.
ROBERT H. LOWIE, New York, in absence of
GEORGE G. MACCURDY, New Haven.

Member of Council.
MAX MEYER, Columbia.

Sectional Committee.
Vice-President, Atlanta, W. B. PILLSBURY; Vice-President, Philadelphia, CLARK WISSLER; GEORGE G. MACCURDY, Secretary; GEORGE B. GORDON, 1 year; A. M. TOZZER, 2 years; P. E. GODDARD, 3 years; R. S. WOODWORTH, 4 years; LIGHTNER WITMER, 5 years. *Ex officio:* JOHN A. LOMAX, President, American Folk-Lore Society; CHARLES PEABODY, Secretary, American Folk-Lore Society; HOWARD C. WARREN, President, American Psychological Association; W. V. BINGHAM, Secretary, American Psychological Association; ROLAND B. DIXON, President, American Anthropological Association; GEORGE G. MACCURDY, Secretary, American Anthropological Association.

Member of General Committee.
LUDWIG R. GEISSLER, Athens.

For list of papers presented before the joint meeting of this Section with the American Anthropological Association and the American Folk-Lore Society, see report of acting secretary in *Science*, N. S. Vol. XLI, No. 1049, February 5, 1915, pp. 221–222.

For address of retiring Vice-President WALTER B. PILLSBURY, see *Science*, same volume, No. 1054, March 12, 1915, pp. 371–380. Title: The Function and Test of Definition and Method in Psychology.

OFFICERS OF SECTION I.

Vice-President and Chairman of the Section.
ELMER E. RITTENHOUSE, New York.

Secretary.
SEYMOUR C. LOOMIS, New Haven.

Member of Council.
W. R. LAZENBY, Columbus.

Sectional Committee.
Vice-President, Atlanta, JUDSON G. WALL; Vice-President, Philadelphia, E. E. RITTENHOUSE; Secretary, SEYMOUR C. LOOMIS; Preceding Secretary, FRED C. CROXTON; JOHN F. CROWELL, 1 year; JOHN B. CLARK, 2 years; GERALD VAN CASTEEL, 3 years; J. PEASE NORTON, 4 years; JUDSON G. WALL, 5 years.

Member of General Committee.
W. H. HALE, Brooklyn.

OFFICERS OF SECTION K.

Vice-President and Chairman of the Section.
RICHARD M. PEARCE, Philadelphia.

Secretary.
DONALD R. HOOKER, Baltimore.

Member of Council.
HENRY H. DONALDSON, Philadelphia.

Sectional Committee.
Vice-President, Atlanta, THEODORE HOUGH; Vice-President, Philadelphia, R. M. PEARCE; Secretary, DONALD R. HOOKER; WILLIAM H. HOWELL, 1 year; THOMAS G. LEE, 2 years; OLIVER P. JENKINS, 3 years; ALEXANDER C. ABBOTT, 4 years; C. E. A. WINSLOW, 5 years.

Member of General Committee.
CH. WARDELL STILES, Wilmington.

For address of retiring Vice-President THEODORE HOUGH, see *Science*, N. S. Vol. XLI, No. 1055, March 19, 1915, pp. 407–418. Title: The Classification of Nervous Reactions.

OFFICERS OF SECTION L.

Vice-President and Chairman of the Section.
PAUL H. HANUS, Cambridge.

Secretary.
STUART A. COURTIS, Detroit.

Member of Council.
EDWARD F. BUCHNER, Baltimore.

Sectional Committee.
Vice-President, Atlanta, P. P. CLAXTON; Vice-President; Philadelphia, PAUL H. HANUS; Secretary, STUART A. COURTIS; Preceding Secretary, C. R. MANN; JOHN DEWEY, 1 year; WILLIAM C. BAGLEY, 2 years; A. ROSS HILL, 3 years; WALTER F. DEARBORN, 4 years; C. RIBORG MANN, 5 years.

Member of General Committee.
W. C. RUEDIGER, Washington.

OFFICERS OF SECTION M.

Vice-President and Chairman of the Section.
L. H. BAILEY, Ithaca.

Secretary.
EDWIN W. ALLEN, Washington.

Member of Council.
WILLIAM A. TAYLOR, Washington.

Sectional Committee.
Vice-President, Philadelphia, L. H. BAILEY; Secretary, EDWIN W. ALLEN; HENRY P. ARMSBY, 1 year; CHARLES W. DABNEY, 2 years; WHITMAN H. JORDAN, 3 years; H. A. MORGAN, 4 years; EDWARD H. JENKINS, 5 years.

Member of General Committee.
EUGENE DAVENPORT, Urbana.

For list of papers presented before this Section at the Philadelphia meeting, see report of secretary of Section M in *Science*, N. S. Vol. XLI, No. 1052, February 26, 1915, pp. 330–332.

For address of Vice-President L. H. BAILEY, see *Science*, same volume, same number, pp. 297–306. Title: The Forthcoming Situation in Agricultural Work.

EXECUTIVE PROCEEDINGS

PHILADELPHIA MEETING

December 28, 1914, to January 2, 1915

EXECUTIVE PROCEEDINGS.

Report of the General Secretary.

The sixty-sixth meeting of the American Association for the Advancement of Science and of the affiliated national scientific societies was held in Philadelphia, December 28, 1914, to January 2, 1915. Houston Hall, of the University of Pennsylvania, was the headquarters and most of the meetings of the sections and affiliated societies were held in the various buildings of the university.

The registered number of members in attendance was one of the largest in the history of the association, being 1,086. The number for the affiliated societies could not be definitely ascertained. A number of institutions sent delegates to the meeting and ten foreign associates were elected for the meeting. The following affiliated societies met during the week:

American Physical Society.
The Geological Society of America.
Paleontological Society of America.
American Alpine Club.
American Society of Zoologists.
American Society of Naturalists.
American Association of Economic Entomologists.
Entomological Society of America.
Botanical Society of America.
American Phytopathological Society.
Society for Horticultural Science.
Sullivant Moss Society.
American Microscopical Society.
American Fern Society.
American Anthropological Association.
American Folk-Lore Society.
American Psychological Association.
Southern Society for Philosophy and Psychology.
Society of American Bacteriologists.
American Federation of Teachers of the Mathematical and the Natural Sciences.
American Nature Study Society.
School Garden Association of America.
Society of Sigma Xi.

The formal opening of the association took place on Monday evening at the first general session when the meeting was called to order by the retiring president, Dr. Edmund B. Wilson. Dr. Wilson introduced the president of the meeting, Dr. Charles W. Eliot. After the welcoming address and the reply by the president, the retiring president delivered the annual address on "Some Aspects of Progress in Modern Zoology." This meeting was fol-

lowed by a reception to the members of the association and affiliated societies by Provost and Mrs. Smith in the university museum.

Two public lectures complimentary to the citizens of Philadelphia and vicinity were given during the week. The first was by Dr. Dayton C. Miller on "The Science of Musical Sounds," on Tuesday evening in the Asbury M. E. Church; the second lecture was by Dr. William H. Nichols on "The War and the Chemical Industry," on Wednesday at the same place. Both of these lectures were well attended.

The sections and affiliated societies held their meetings morning and afternoon during the week and many important papers were read.

Numerous smokers and dinners were held by the various societies. The University of Pennsylvania very generously furnished luncheon each day in the gymnasium for all of those in attendance.

The vice-presidential addresses given before the sections were as follows:

Section A: "The Object of Astronomical and Mathematical Research," by Frank Schlesinger.

Section B: "Recent Evidence for the Existence of the Nucleus Atom," by A. D. Cole.

Section C: "Theories of Fermentation," by C. L. Alsberg.

Section D: "Safety Engineering," by O. P. Hood.

Section E: "The Relief of our Pacific Coast," by J. S. Diller.

Section F: "The Research Work of the Tortugas Laboratory of the Carnegie Institution of Washington," by Alfred G. Mayer.

Section G: "The Economic Trend of Botany," by Henry C. Cowles.

Section H: "The Function and Test of Definition in Psychology," by Walter B. Pillsbury.

Section I: "The Social and Economic Value of Technological Museums," by Judson G. Wall.

Section K: "The Classification of Nervous Reactions," by Theodore Hough.

Section L: "The American Rural Schools," by P. P. Claxton.

Section M: "The Forthcoming Situation in Agricultural Work," by L. H. Bailey.

The most important actions of the council were as follows:

The election of 256 members and 620 fellows.

The committee on policy recommended the following resolutions, which were adopted by the council:

Resolved, That the Committee on Policy shall consist of the president, the permanent secretary and nine other members, three to be elected annually. Non-attendance at the meetings for one year will constitute resignation from the committee.

Second. The following committee was elected, to serve for one year: Messrs. A. A. Noyes, R. S. Woodward and J. McKeen Cattell; to serve for two years, Messrs. D. T. MacDougal, W. J. Humphreys and E. L. Nichols; to serve for three years, Messrs. H. L. Fairchild and E. C. Pickering.

Third. Dr. Stewart Paton was elected to fill the vacancy on the committee caused by the death of Dr. C. S. Minot.

Fourth. Dr. Edward S. Morse and Dr. T. C. Mendenhall were made life members of the association under the terms of the Jane M. Smith Fund.

Fifth. Herbert A. Gill was appointed as official auditor for the association.

Sixth. That all committees of the association which have not reported for two years be discontinued.

Seventh. The nomination by the sectional committee of Section I of Mr. Elmer E. Rittenhouse as a fellow and vice-president of that section was approved.

Eighth. The nomination by the sectional committee of Section D of Dr. Frederick W. Taylor as vice-president of that section was approved.

Ninth. There was voted an appropriation of $1,800 for the salary and expenses of the associate secretary for the Pacific Coast Division for the coming year and $400 for use in an effort to increase the membership and any sum received from entrance fees in excess of $400 is to be devoted to the same purpose.

Professor Pickering gave a résumé of the work of the committee on expert testimony and a report of progress on the work of the committee of one hundred on scientific research.

The following names were added to the Pacific Coast Committee:

Professor Henry Landes, University of Washington; President Enoch A. Bryan, State College of Washington; President M. A. Brannon, University of Idaho; Professor Maxwell Adams, University of Nevada; Professor Joseph F. Merrill, director of the School of Mines, University of Utah.

The following resolution from Section K was referred to the committee on policy:

Resolved, That this association establish a standing committee of five members to be known as the "Committee on the Protection of Scientific Research," that this committee from time to time prepare and publish in the name of the association such statements and resolutions as it may consider necessary in the education of the public concerning the value of animal experimentation in the advancing of the medical and biological sciences.

The two following resolutions were adopted:

Resolved, That there be authorized a finance committee of three of which the treasurer shall be a member and chairman.

Resolved, That a committee of seven be appointed on the administration of the income of the research funds of the association, the committee to be the five chairmen of the subcommittees already formed by the committee of one hundred on scientific research, namely, Messrs. E. C. Pickering, C. R. Cross, E. W. Brown, T. W. Richards and E. L. Nichols, and in addition Messrs. E. G. Conklin and R. A. Harper.

Messrs. H. C. Cowles, Henry B. Ward and Dr. Stewart Paton were elected members of the council for three years.

A minute in memory of Dr. Charles Sedgwick Minot, presented by Mr. J. McKeen Cattell, was adopted by a rising vote.

The council at its final meeting passed resolutions extending thanks to Provost Smith, of the University of Pennsylvania, and to all the organizations and institutions who did so much for the comfort and entertainment of the members of the association.

At the meeting of the general committee, the following officers were elected:

President: W. W. Campbell, University of California.
Vice-presidents:
Section A: A. O. Leuschner, University of California.
Section B: Frederick Slate, University of California.
Section C: W. McPherson, Ohio State University.
Section D: Bion J. Arnold, Chicago.
Section E: C. S. Prosser, Ohio State University.
Section F: V. L. Kellogg, Stanford University.
Section G: W. A. Setchell, University of California.
Section H: G. M. Stratton, University of California.
Section I: Geo. F. Kunz, New York.
Section K: F. P. Gay, University of California.
Section L: E. P. Cubberley, Stanford University.
Section M: Eugene Davenport, University of Illinois.
General Secretary: Henry Skinner, Philadelphia.
Secretary of Council: W. E. Henderson, Ohio State University.

C. E. A. Winslow was elected secretary of Section K, to fill an unexpired term of two years.

Dr. L. O. Howard was again reelected permanent secretary for a term of five years.

The committee voted to hold the summer meeting at San Francisco, August 2 to 7, and the next winter meeting at Columbus, Ohio, from December 27, 1915, to January 1, 1916. A convocation week meeting in which all scientific societies are invited to join is recommended for New York City in 1916–17, and a meeting in 1917–18 in Toronto or Pittsburgh.

WM. A. WORSHAM, JR.,
General Secretary.

REPORT OF THE PERMANENT SECRETARY.

The matters heretofore referred to in the report of the Permanent Secretary, in so far as they relate to the annual meeting, have been covered in the report of the executive proceedings prepared by the General Secretary, and duplication is avoided by omitting them under the present head.

The following is a comparative statement of the roll of members of record at the time of the annual meetings as noted:

	Surviving Founders	Living Patrons	Living Honorary Fellows	Fellows	Members	Totals
Washington	3	2	3	1197	2787	3992
St. Louis	3	2	3	1195	2812	4005
Philadelphia	2	2	3	1253	2781	4041
New Orleans	2	2	3	1351	2963	4321
New York	2	2	3	1847	2644	4498
Chicago	2	2	2	1871	3237	5114
Baltimore	2	2	2	1969	4161	6136
Boston		2	1	2195	5732	7950
Minneapolis		2	1	2395	5614	8012
Washington		1	1	3065	4974	8041
Philadelphia		1	..	3881	4440	8325

L. O. HOWARD,
Permanent Secretary.

L. O. HOWARD, PERMANENT SECRETARY, IN FOR THE ADVANCE-

From November 1, 1913,

DR.

To balance from last account		$8,079.57
To receipts from members:		
Annual dues, 1914	$21,713.00	
Annual dues, 1915	148.00	
Annual dues, previous years	267.00	
Admission fees	2,250.00	
Associate membership fees	9.00	
Life membership fees	530.00	
		24,917.00
To other receipts:		
Sale of publications	21.75	
Bindings	1.50	
Interest	80.28	
Miscellaneous receipts, including postage and Treasurer's payment towards subscriptions for *Science* for Life Members	421.64	
		525.17
		$33,521.74

The fo[illegible]regoing account has been examined and found correct, the expenditures bei[illegible]g supported by proper vouchers. The balance of $7,095.74 is with the foll[illegible]wing Washington, D. C., banks:

American Secu[illegible]rity and Trust Co	$4,074.39
American National Bank	3,021.35

HERBERT A. GILL,
Auditor.

ACCOUNT WITH THE AMERICAN ASSOCIATION
MENT OF SCIENCE.

to October 31, 1914.

CR.

By publications:		
Publishers *Science*		$15,291.29
By expenses Atlanta meeting:		
To secretaries of Sections, etc	$1,169.89	
To badges, help and general expenses	192.05	
		1,361.94
By general expenses, including propaganda work:		
To postage	$1,459.13	
To stationery, circulars, miscellaneous printing (including Preliminary Announcement), telegrams, express, telephone, sundry office supplies, etc	1,188.24	
To extra clerical help	790.30	
		3,437.67
By salaries:		
Permanent Secretary	$1,500.00	
Assistant Secretary	1,500.00	
		3,000.00
By salary and expenses, Pacific Division		1,617.90
By salary and expenses, Secretary for the South		917.20
By miscellaneous disbursement:		
To Treasurer, Life Membership commutations		800.00
By balance to new account		7,095.74
		$33,521.74

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